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6 oz. in	12 oz.	10/9	9/-	doz.
8 oz. in	16 oz.	13/-	11/-	doz.

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		No. 1 quality	No. 3 quality	
3 oz. in	6 oz.	5/6	4/9	doz.
4 oz. in	8 oz.	6/9	5/6	doz.
6 oz. in	12 oz.	9/-	7/6	doz.
8 oz. in	16 oz.	11/6	9/6	doz.

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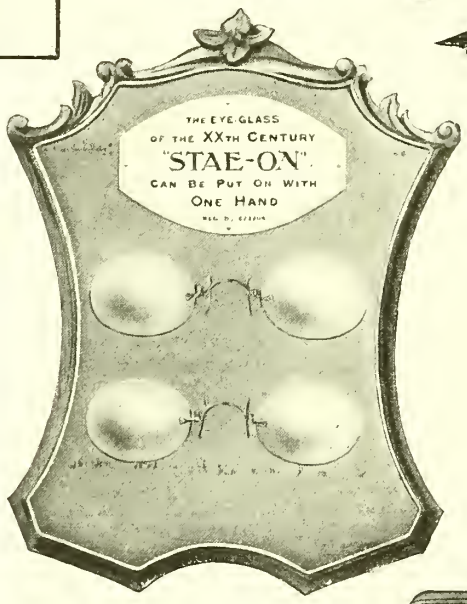

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Kemp, Campbell & Co.
Lennon, Ltd.

AIR CUSHIONS
Burge, Warren & Ridgley, Ltd.

ALKALOIDS
Boehringer, C. F., and Soehne
Boehringer, C. H., Sohn
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Merck, E.
Morson, T. & Son
Roques, Ferdinand
Smith, T. & H., Ltd.
Whiffen & Sons, Ltd.
Widenmann, Broicher & Co., Ltd.

ALMOND OIL
Allen, Stafford & Sons, Ltd.

ALUMINIUM BOXES
Buncher & Haseler, Ltd.
Eley Bros., Ltd.

AMBULANCE BOXES
Taylor, Law & Co., Ltd.

AMBULANCE OUTFITS
Hall Forster & Co., Ltd.

AMERICAN PROPRIETARIES
American Drug Supply Co.
Roberts & Co.

AMMONIA AND SALTS
Brunner, Mond & Co., Ltd.
Scrubb & Co., Ltd.

AMPOULE FILES
Sim, Ltd.

ANÆSTHETICS
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

ANALYTICAL CHEMICALS
Hopkin & Williams Ltd.

ANILIN DYES
Crawshaw, B., & Co

ANNATTO
Fullwood, R. J., & Bland
Tomlinson & Hayward Ltd.

ANTI-RHEUMATIC RINGS
Burge, Warren & Ridgley, Ltd

ANTISEPTICS
Chemische Fabrik von Heyden
Sanitas Co., Ltd

ARTIFICIAL LIMBS
Ferris, J. & E.
Haywood, J. H., Ltd.
Maw, S., Son & Sons

ASTHMA REMEDIES
Barclay & Sons, Ltd.
Hair, B. W. & Son
Lofthouse & Saltmer, Ltd.
Potter & Clarke, Ltd.

BALSAMS
Dodge & Olcott Co.

BATH GLOVES
Solport Bros.

BATHING CAPS
Jas. Tompkins, Ltd.

BAY RUM
Knox Walker, J., & Co., Ltd.

BED SHEETING
Ingram, J. G., & Son

BEETLE EXTERMINATORS
Danysz Virus, Ltd

BISMUTH SALTS
Alliance Drug & Chem. Co.
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Morson, T., & Son
Tyrer, T., & Co., Ltd.
White, Alfred, & Sons

BODY BELTS
Haywood, J. H., Ltd
Schutze, F., & Co., Ltd.
Wood, Vincent

BOOKS, &c.
Lewis, H. K.
Martindale's "Extra Pharm."
Squire's "Companion"

BORAX
Borax Consolidated Ltd.

BOTANIC DRUGGISTS
Newball & Mason
Potter & Clarke, Ltd.

BOTTLES, JARS, &c., GLASS
Barnett & Foster
Beatson Clark & Co., Ltd.
Bush, H. W., & Co., Ltd.
Ferry, T., & Son, Ltd.
Gascoh, J. B.
"Ideal" Bottle
Isaacs, I., & Co.
Maw, S., Son & Sons
Melin, C., & Co.
Orrock, R., & Co.
Poths, H., & Co.
Swales, Thomas
Universal Bottle Co
Youldon, E., Ltd.

BOXES
Ford, Shapland & Co
Glover, C. H., & Co., Ltd.
Robinson & Sons, Ltd.
Rogers & Co.
Stipendum Stopper Co.
Waide, T., & Son

BOXES, GREASEPROOF
Rogers & Co.

BRUSHES
Bidwell, Bidwell & Co., Ltd.
Hovenden, R., & Sons Ltd.
Kent, G. B., & Sons, Ltd.
"Koh-i-Noor"
Maw, S., Son & Sons
Titterton & Howard
Turner, Son & Co., Ltd.

BUTTER COLOURING
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

CACHETS AND APPARATUS
Christy, Thos., & Co.
Clark, Cicero S.
Lorimer-Marshall, Ltd.
Warrick Brothers

CACHOUS
Potter & Clark, Ltd.

CACODYLATES
Roques, Ferdinand

CALF LYMPH
Heinemann, W.

CAMERAS
Hatcher, W., & Sons, Ltd.

CAMOMILE OIL
Jackson, John, & Co.

CAMPHOR
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Whiffen & Sons, Ltd.

CAPS FOR BOTTLES, &c.
Airtight Capsules Co., Ltd.
Betts & Co., Ltd.
Darter, Wilkinson & Co.
Smith Bros. & Co.
Viscose Co. (Self-fixing)

CAPSULED PILLS
McKesson & Robbins

CAPSULES (VARIOUS)
Denoual, Jules, & Co.
Evans Sons Lescher & Webb, Ltd.
Stevenson, H. E., & Co.
Tye, John, & Son
Warrick Bros.

CASH TILLS
British Machine Co. Ltd.
Gledhill, G. H., & Sons, Ltd.
National Cash Register Co., Ltd.

CATHETERS
Mason Bros & Chapman
Warne, Wm., & Co., Ltd.

CAUSTIC SODA
Brunner, Mond & Co., Ltd.

CEMENTS
Kay Bros, Ltd.

CHALK, PRECIPITATED
Levermore, A., & Co., Ltd.
Mumford, G. S., & Sons
Nichols Chemical Co. Ltd
Sturge, John & E., Ltd.

CHEMICAL PLANT
Forshaw, E., & Son, Ltd.

CHEMICAL REAGENTS
Hopkin & Williams, Ltd.

CHEMICALS
Bayer Co., Ltd.
Bramwell, E., & Son
British Drug Houses, Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Chemische Fabrik von Heyden
Corbyn, Stacey & Co., Ltd.
Curling, Geo., Wyman & Co.
Evans Sons Lescher & Webb, Ltd
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Knoll & Co., Ltd.
May & Baker, Ltd.
Merck, E
Morson, T., & Son
Sturge, John & E., Ltd.
Tyrer, T., & Co Ltd.
Washington Chemical Co., Ltd
Whiffen & Sons, Ltd.
White, A., & Sons
Widenmann, Broicher & Co., Ltd

CHLORATES, PER-CHLORATES
Société d'Electro-Chimie

CHLORIDE OF LIME
Brunner, Mond & Co., Ltd.

CHLORODYNE
Davenport, J. T., Ltd.

CHLOROFORM
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd
Smith, T. & H., Ltd

CIGARS AND CIGARETTES
Singleton & Cole, Ltd

CITRIC ACID AND CITRATES
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Sturge, John & E., Ltd.

CLINICAL THERMOMETERS
Burge Warren & Ridgley, Ltd
Bush, H. W., & Co., Ltd.
Hicks, James J
Maw, S., Son & Sons
Perken, Son & Co., Ltd.
Pillischer, J.
Powell, J. T., & Co.
Real, G. H.

CLOTH BALLS
O'Neil, Lette & Co.
Sendler, Alf., & Co

COAL TAR SPECIALITIES
Wright Layman & Umney, Ltd

COCAINE
Boehringer, C. F., & Soehne
Buchler & Co.
Merck, E

COCKROACH PASTE
Howarth & Fair

COCOA
Cadbury Bros., Ltd
Plasmon, Ltd.

COD LIVER OIL
British Drug Houses, Ltd., The
Burge, Johann & Co.
Evans Sons Lescher & Webb Ltd
Southall Bros. & Barclay, Ltd.
Sparks, White & Co. Ltd.
Wright, Layman & Umney, Ltd

COLLAPSIBLE TUBES
Betts & Co., Ltd.

COMBS
Gripwell
Hovenden, R., & Sons, Ltd.
Simplex Conduits, Ltd

COMPLEXION SPECIALITIES
Adair, Mrs.

CONDENSERS
Bennett Sons & Shears, Ltd.

CONFECTIONERY, MEDICATED
Guest, Thos & Co
Pascall, James, Ltd

CONTINENTAL PROPS.
Breillon, M., & Co.
Kopp & Joseph
Roberts & Co.
Schacht, Warner & Co.
Wilcox, Jessop & Co.

COPPERSMITHS
Braithwaite, H., & Co.

CORKS
Mitchell, N. W., & Sons, Ltd.

CORN EXTERMINATOR
Gardner

CORN PLASTERS
Beiersdorf, P., & Co.
Solport Bros.

CORRUGATED PAPER
Wrightling, Geo. C. & Co., Ltd.

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Curling, Geo., Wyman & Co.
Hewlett, C. J., & Sons, Ltd
Southall Bros. & Barclay, Ltd
Wright Layman & Umney Ltd

COUNTING AND FILLING MACHINE
Forgrove Machinery Co., Ltd

COURT PLASTER
Solport Bros

CREOSOTE
Bates Bros & Stevenson, Ltd.
Morson, T., & Son

CREPE BANDAGES
Gimber, W. & Son
Burge, Warren & Ridgley, Ltd
Norwich Crepe Co. (1856), Ltd
Wood Vincent

CYANIDES
May & Baker Ltd

DAIRY SPECIALITIES
Fullwood, R. J. & Bland
Oldfield Pattinson & Co.
Tomlinson & Hayward, Ltd.

DENTAL MECHANICS
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Wardale F. C., & Co

DENTAL TOOLS, &c.
Claughtons, Ltd
Edwards Dental Mfg. Co., Ltd

DENTIFRICES
Beecham, T
Bell (John) Hills & Lucas, Ltd
Beiersdorf, P., & Co.
Berliner Arthur
Blackie Robert
Calvert, F. C., & Co.
Christy, T. & Co.
Cook, B., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Everyl, Ltd
Gibbs, D. & W., Ltd.
Hayden Coffin T. P.
Jewsbury & Brown
McKesson & Robbins
Maw, S. Son & Sons
Odol Chemical Works
Parke, Davis & Co
Standard Tablet & Pill Co., Ltd
Woolley J. Sons & Co. Ltd

DEVELOPERS (PHOTO)
Evans Sons Lescher & Webb, Ltd
Express Developing Co.
Johnson & Sons (Mfg. Chts.)

DEXTRINE
Kent, G. B. & Co

DIABETIC FOODS
Scott, R. M
Van Abbott G. & Sons

DIGESTIVE PRODUCTS
Fairchild Bros & Foster

DISINFECTANTS
Bates Bros & Stevenson Ltd
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemical Union, Ltd.
Condy & Mitchell Ltd.
Cook, B. & Co., Ltd
Ellison Henry, Ltd
Sanitas Co. Ltd
Stevenson, H. E., & Co.
Willows Francis B. & T.
Wright Layman & Umney, Ltd

DISINTEGRATORS
Hardy Patent Pick Co. Ltd

DRUGGISTS' SUNDRIES
Ayrton Saunders & Co., Ltd
Barclay & Sons, Ltd.
Berliner Arthur
Brook, Parker & Co., Ltd.
Bryetele Manfg Co.
Burge, Warren & Ridgley, Ltd
Bush, H. W., & Co., Ltd.
Edwards W. & Son
Evans Sons Lescher & Webb, Ltd
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, E., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Sangers
Scantlebury, F., & Co., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd
Swales, Thomas
Toogood, W., Ltd.
Toser, J. V.
Wattenbach, O.
Woolley J. Sons & Co., Ltd.
Zinser, Alberto

DRUGS, CRUDE
Burkett, Sharp & Co
Gatacre Goodall & Son
Goodall, Backhouse & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Sandeshaya
Zinser, Alberto

EARTHENWARE JARS, &c.
Fulham Pottery
Filter Co., Ltd

EAU DE COLOGNE
Bronnley, H. & Co., Ltd.
Farina, J. M.
Farina, J. M. (No. 4)
Fiskin, Courtenay & Co.
McCracken, J. & E.
Schulze F. & Co., Ltd

EDUCATIONAL INSTITS.
Bath & West of England College
Birmingham & Midland College
Charleston, J.
College of Preceptors
Elt's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
Rance, Miss E.
South of England College
Westminster College

EFFERVESCENT PREPS.
Allen & Hanburys, Ltd.
Ayrton Saunders & Co., Ltd
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
British Drug Houses, Ltd., The
Cupal, Ltd
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Kerfoot Thos & Co.
Lorimer-Marshall, Ltd.
Shirley Bros., Ltd.
Wright Layman & Umney, Ltd
Wyleys, Ltd

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd
Burge, Warren & Ridgley, Ltd
Haywood J. H., Ltd.
Maw S., Son & Sons
Wood Vincent

ELECTRICAL NOVELTIES
Evans Sons Lescher & Webb Ltd
Midland Bros., Ltd.
Simplex Conduits, Ltd.
Tokalon, Ltd.
Ward & Goldstone
Wright, Archd. J., Ltd.

EMERY AND CLOTH
Oakey J. & Sons, Ltd.

EMETINE SALTS
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd.

EMULSIFIERS
Bennett Sons & Shears, Ltd
Boothroyd, H. T., Ltd.
Wilkinson S. W. & Co

EMULSIONS, C.L.O., &c.
Ayrton Saunders & Co. Ltd
Bates Bros & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd
British Drug Houses Ltd.
Faulding, F. H., & Co.
Parke Davis & Co
Scott & Bowne, Ltd.
Stevenson H. E. & Co.
Wyleys, Ltd.

ENAMELLED HOSPITAL REQUISITES
Orme Evans & Co. Ltd

END RUNNER MILLS
Hardy Patent Pick Co., Ltd.

ENEMAS
Burge Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Warne, W., & Co., Ltd.

IOM SALTS
owards & Sons, Ltd.
ay & Baker Ltd.

ANCES, SOL. AND FRUIT
Nance Drug & Chem. Co.
rnett & Foster
ats Roberts & Co., Ltd.
ish, W. J., & Co., Ltd.
ig, Wm., Ltd.
ndon Essence Co.
nalee Co.
evenson & Howell, Ltd.

HERS
ins Bros. & Stevenson, Ltd.
ineau, Flockhart & Co.
owards & Sons, Ltd.
acfarlan, J. F., & Co.
ay & Baker, Ltd.
rrer, T., & Co., Ltd.
hite, A., & Sons

CALYPTUS OIL
ritish Drug Houses, Ltd., The
evenson, H. B., & Co.
umanian Encalyptus Oil Co

IPORATORS
rshaw E. & Son, Ltd.

TRACT OF HERBS
owball & Mason
otter & Clarke, Ltd

TRACTS (MEDICINAL)
llen, Stafford, & Sons, Ltd.
arroughs Wellcome & Co
arling, Geo., Wyman & Co.
vans Sons Lescher & Webb, Ltd
thargood's Exor.
owlett, C. J., & Son, Ltd.
arks, Davis & Co.
ansom, W., & Son, Ltd.

TORY, &c., SITES
reat Western Railway

EDING BOTTLES
ush, H. W., & Co., Ltd.
chutze, F., & Co., Ltd.

LING MACHINES
ardgrove Machinery Co., Ltd
oberts' Pat. Filling Machine Co

TERS
ockefeld Filter Co., Ltd.

FLYCATCHERS
rozon Fly-catcher Works
abastine Co. (British), Ltd
rown Manfg. Co., Ltd.
ard, Shapland & Co.
... Bros., Ltd.
ettit, G.
man, Jno. H., & Co.
ambridge & Wright

FOODS, INVALID, &c.
llen & Hanburys, Ltd.
ell (John), Hills & Lucas, Ltd
ager's Food, Ltd.
rand & Co., Ltd.
ransvim Co.
ritish Casein Co. (1911), Ltd
airchild Bros. & Foster
letcher, Fletcher & Co., Ltd
rame Food Co.
arter, Stagg & Morgan, Ltd
erlick's Malted Milk Co.
ofthouse & Saltmer, Ltd.
atural Food Co., Ltd.
amel, Ltd.
atermann Bros.
aemon Ltd
idge's Royal Food Mills
ester Lauras Infant Food Co.
outhall Bros. & Barclay, Ltd
ander, A., Ltd.
illows, Francis B. & T.
elley, Jas Sons & Co., Ltd

FOOT APPLIANCES
chell Mfg Co., Ltd.

FULLER'S EARTH
amford, G. S., & Sons

FUMIGATORS
anitas Co., Ltd.

GINGER WINE
... & Co

GLASSWARE, CHEMICAL
illiams, E., & Co.

GLYCERIN
... Patent Candle Co., Ltd

GLYCEROPHOSPHATES
ngle-American Pharm. Co.
erck, E.

GREASE REMOVER
rris & Co., Ltd

GRINDERS, DRUG, &c.
llen, Stafford, & Sons, Ltd.
oodall, Backhouse & Co.
illows, Francis B. & T.

GRINDING MACHINERY
ardy Pat Pick Co., Ltd.

GRIPE WATER
oodward, W., Ltd.

GUMS
Fink, F., & Co.
Kidston, W. M., & Co.

HAIR DYES
Barker, Stagg & Morgan, Ltd.
Knox Walker, J., & Co., Ltd.

HAIR PREPARATIONS
Alexandre
Blackie, Robert
Edward's "Harlene" Co.
Harrison, G. W.
Knoll & Co., Ltd.
Lindner, M.
Osborne, Garrett & Co.
Rubare's Aureoline
Sangers
Thompson & Capper, Ltd.
Tokalon Ltd

HAND CARTS, TRUCKS, &c.
Crews & Co.

HAT CLEANERS
Christy, Thos., & Co.
Eck, Ernest, & Co.
Milner's Chemical Co.
Sanier, Alfred, & Co.

HAT DYES
Whittaker & Co.

HERBS
Potter & Clarke, Ltd.

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

HORSE REMEDIES
Harvey & Co (Dublin), Ltd.

HOT-AIR DOUCHES
Ward & Goldstone

HOTELS
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Burge, Warren & Ridgley, Ltd.
Fulham Pottery & Chesvin Filter Co., Ltd.
Galen Manfg Co., Ltd.
Schutze F., & Co., Ltd.
Toogood, William, Ltd.
Wood Vincent

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer T. & Co., Ltd.

HYPNOTICS
Knoll & Co., Ltd.
Widenmann, Broicher & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Morson, T., & Son
Tyrer, T., & Co., Ltd.

ICHTHYOL
Ichthyol Gesellschaft

INK, DICHROIC
Bewley & Draper Ltd.

INK POWDER
Webster, T., & Co.

INSECT POWDER
Danysz Virus, Ltd.
Keating, Thomas
Potter & Clarke, Ltd.
Raimes & Co

INSECTICIDES
Christy, T., & Co.
Cook H., & Co., Ltd.

INSURANCE
London & Midland Insurance Co Ltd.

IODIDES
Morson, T., & Son

LANOLINE
Burroughs Wellcome & Co.

LARD
Ewen, J., & Sons

LAVENDER OIL
Jakson, John, & Co.
Ransom, W., & Son, Ltd.

LAVENDER WATER
Bush W. J., & Co., Ltd.

LECITHIN
Chem Works "Victoria"
Merck, E.

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb, Ltd
Goodall, Backhouse & Co.
Idris & Co., Ltd

LINSEED, CRUSHED, &c.
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons Ltd.
Vernon & Co., Ltd.

LIQUORICE JUICE
Apollo
Burgoyne, Burhidges & Co.
Droguerie & Huileries Anversoises, Ltd.
Evans Sons Lescher & Webb, Ltd.
Jackson, Ernest, & Co.
Mumford, G. S., & Sons
Solassi

LITHIA SALTS
British Drug Houses, Ltd., The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

LOOFAHS
Hall Forster & Co., Ltd.
Internl Sponge Importers, Ltd.
Solport Bros.
Swales, Thomas

LOZENGES
Blyton, Astley & Co.
Cartwright, W. B., Ltd.
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Forgrove Machinery Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Hardy Patent Pick Co., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

MAGNESIA AND PREPS.
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Tokalon, Ltd.
Washington Chemical Co., Ltd.
Wigglesworth & Co.

MALT EXTRACT & PREPS.
Allen & Hanburys, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses, Ltd., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd
Fletcher, Fletcher & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Patermann Bros.
Saccharin Corporation, Ltd.

MARKING INK
John Bond ("Crystal Palace")

MEASURES, GRADUATED
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

MEDICAL COILS
Ward & Goldstone

MERCURIALS
Alliance Drug and Chem. Co.
Howards & Sons Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
Whiffen & Sons Ltd.

METHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son Ltd.
Riddell & Smith
Thornley, Samuel, Ltd.

MILK SUGAR
Hollandsche Melkcuikerfabriek

MINERAL WATERS, SALTS
Apollinaris Co., Ltd.
Ingram & Royle, Ltd.
Vichy-Celestins

MIXERS AND SIFTERS
Gardner, Wm., & Sons (Glosceter), Ltd.

MOTOR CARRIERS, VANS, &c.
Bentinck Motor Supply, Ltd.
Tilling, Thomas Ltd

MUSTARD PLASTER
Blyton, Astley & Co.
Ruff Julius

MUSTARD SEED OIL
Johnson J H & S

NAIL POLISH PAPER, &c.
Pharm Ind Ges. Offenbach

NAPHTHALINE
Burt Boulton & Haywood, Ltd.

NICOTINE
Campbell, J. D.

NIGHT LIGHTS
Price's Patent Candle Co., Ltd.

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake Roberts & Co., Ltd.
Bonaventura, F., & Co.
Bush, W J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd
Jakson, John, & Co.
London Essence Co.
Lneders, George, & Co.
Poppelrenter, W.
Ransom, W., & Son, Ltd.
Schimmel & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.

OILS, MINERAL, FATTY, &c.
Allen, Stafford, & Sons, Ltd
Price's Patent Candle Co.
Stern Sonneborn Oil Co., Ltd

OINTMENTS
Blackie, Robert
Burgess, E.
Oldfield, Pattinson & Co.

OPTICAL GOODS
Darton, F., & Co.
Nitsche & Gunther Opt. Co., Ltd
Standard Optical Co.

OPTICAL TUITION
British Optical Institute, Ltd.
College of Optics
Spectacle Makers Company

ORANGE & QUININE WINE
Idris & Co., Ltd.
Millar, A., & Co, Ltd.
Robinson, B., & Co. Ltd.

ORGANIC SOLVENTS
Hopkin & Williams, Ltd.

OTTO OF ROSE (SYNTH.)
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd

OVERALLS
Lilywhite, Ltd.

PACKED GOODS
Allen & Hanburys, Ltd.
Baiss Bros & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd
Curling, Geo., Wyman & Co.
Davies, Sons & Co
Evans Sons Lescher & Webb, Ltd
Goodall, Backhouse & Co.
Harker, C R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd
Sangers
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co., Ltd.
Toogood, W., Ltd.

PALATINOIDS
Oppenheimer Son & Co Ltd.

PAPER HANDKERCHIEFS
Powell J T & Co

PARAFFINUM LIQUIDUM
Burgoyne, Burhidges & Co.
Price's Patent Candle Co., Ltd
Schliemann's Oil & Ceresine Co
Stern Sonneborn Oil Co., Ltd.

PASTILLES
Allen & Hanburys, Ltd.
Asche, C ... & Co.
Blyton Astley & Co.
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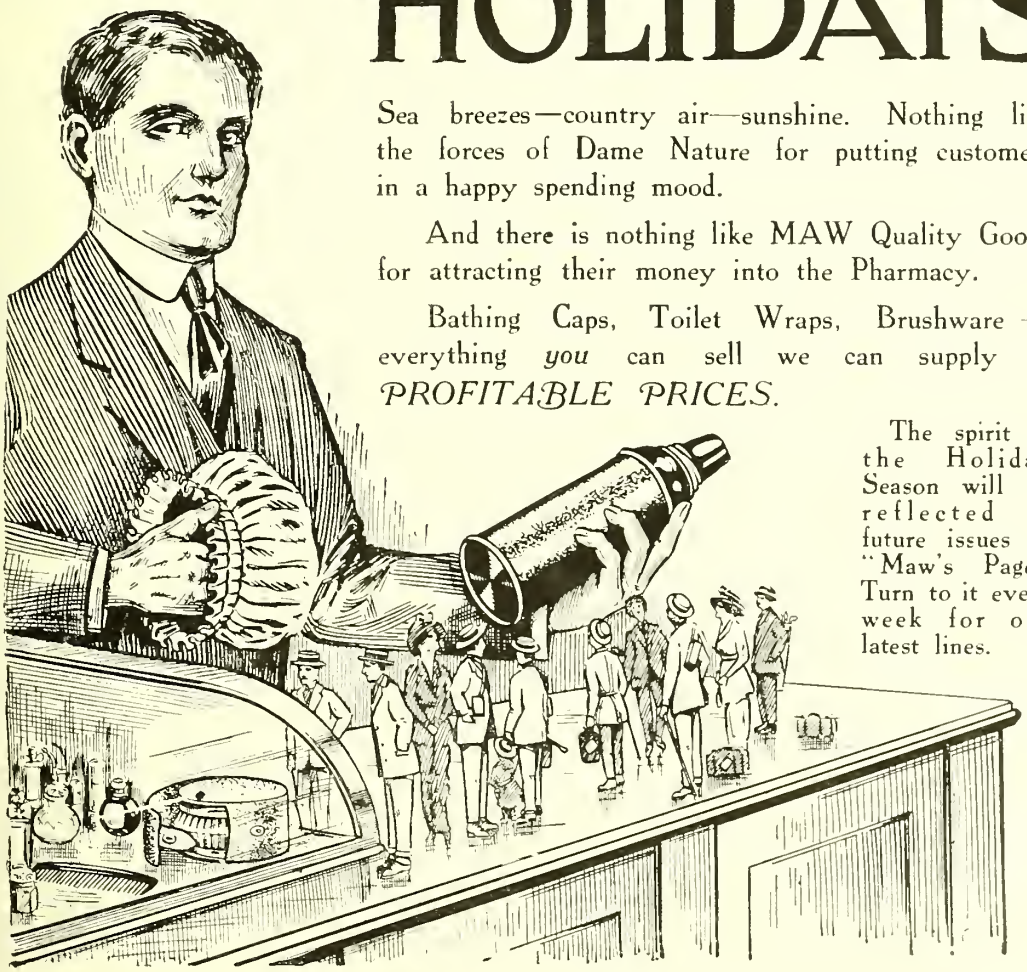
Maw's Page.

No. 137 MAY 30, 1914

The call of the HOLIDAYS



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And there is nothing like MAW Quality Goods for attracting their money into the Pharmacy.

Bathing Caps, Toilet Wraps, Brushware — everything *you* can sell we can supply at *PROFITABLE PRICES.*

The spirit of the Holiday Season will be reflected in future issues of "Maw's Page." Turn to it every week for our latest lines.

MAGNUM ("40-oz.") SYPHONS

holding 25 per cent. more than ordinary syphons

PRICE ? EACH

Try the above as a window-bill, filling in whatever "price each" you elect or the conditions of local competition dictate.

YOU CAN FILL SUCH SYPHONS YOURSELF, AT A COST OF ONLY ONE PENNY EACH,

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PURE AERATION SUPPLY SYPHON CHARGER

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VICHY-CÉLESTINS

STATE SPRING.

DISORDERS OF THE LIVER; GOUT;

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VICHY-ÉTAT PASTILLES.

Two or three Pastilles after each meal facilitates digestion.

CAUTION: Each bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS:

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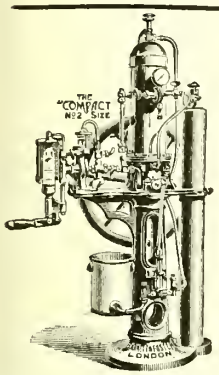

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For use with Compressed Carbonic Acid Gas is specially designed FOR CHEMISTS, and is provided with one or more filling machines.

Occupies little space. Ready for immediate use. Requires no fixing.

Produces Soda-water, Lemonade, etc., of the highest quality and greatest purity.

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No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles *and* Syphons ... £60
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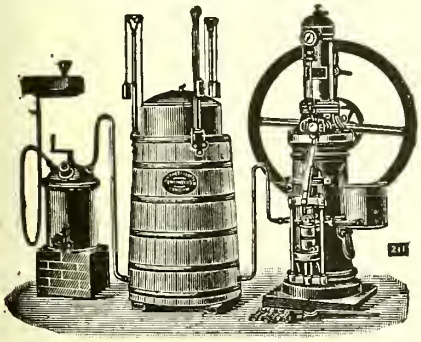
We also make a smaller machine at £20.

THE PERFECTION OF SIMPLICITY. AUTOMATIC CARBONATION.

To those who can spare space in which to generate their own gas, we offer the "Niagara" machines advertised below.



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(Continuous Action).

This machine is superseding all other types for the manufacture of FIRST-CLASS Aerated Waters, and is in use in most of the leading manufactories throughout the world.

PRICES, COMPLETE, from £30,

FITTED FOR HAND AND POWER

Particulars of Larger Sizes on application.

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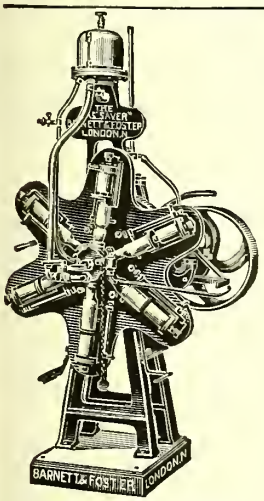

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STUDY QUALITY—AS CHEMISTS MUST—

By Bottling on our Latest Types of Filling Machines. We Guarantee the

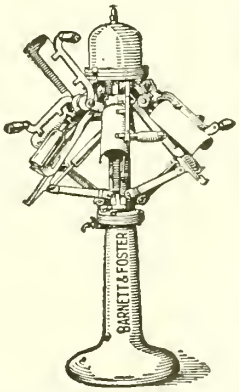
Highest Quality Soda-water at 60-lb. Pressure!

thereby Saving Gas, avoiding Bottle-breakage and improving quality of Products.——The secret:

BACK PRESSURE—PROPERLY APPLIED.

Particulars of the "GAS-SAVER," for filling Codd's and Niagara Bottles; The "ROUNDABOUT," for filling Corked, Crowned and Screw Bottles sent on application.

SAVE MONEY.



THE "ROUNDABOUT," in 6 sizes, prices from £25

CATALOGUE of all our Manufactures, including Syphon-filling Machines, Syphons, all classes of Bottles, Modern Bottle-washing Appliances, Ice and Refrigerating Plant, Essences, Flavourings and Drugs, and every requirement of the trade sent FREE on application to—

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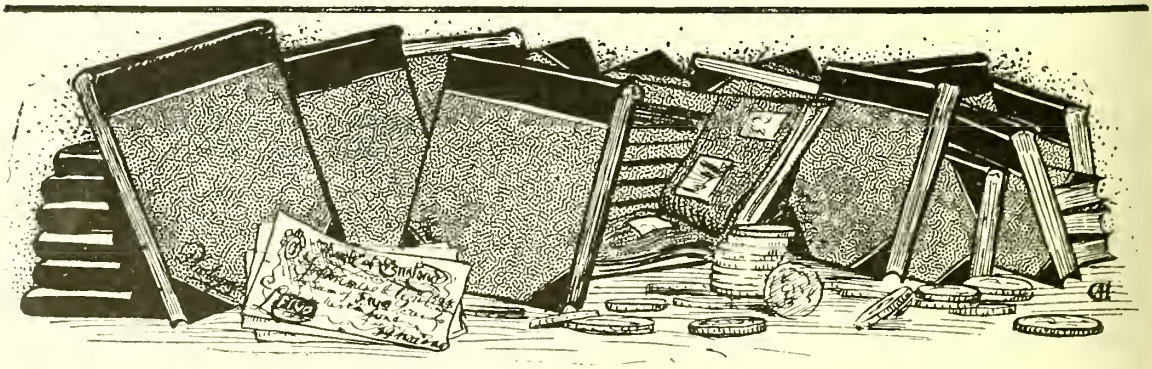

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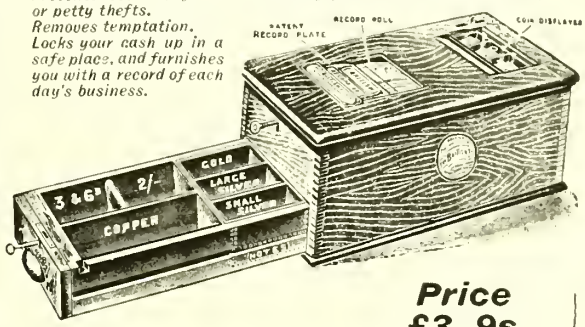

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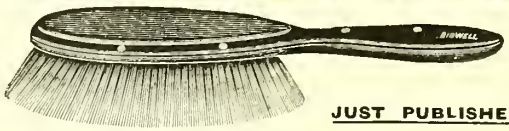

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Diary, 1914, pp. 120, 121.

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½-lb. tins, round	6/3	,,
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5 ,, ,, ,, ...	30/-	,,
10 ,, ,, ,, ...	5/-	per tin.
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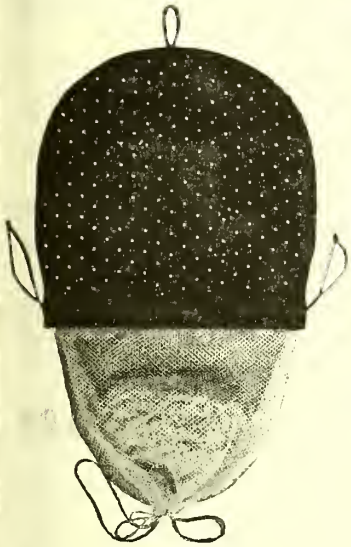

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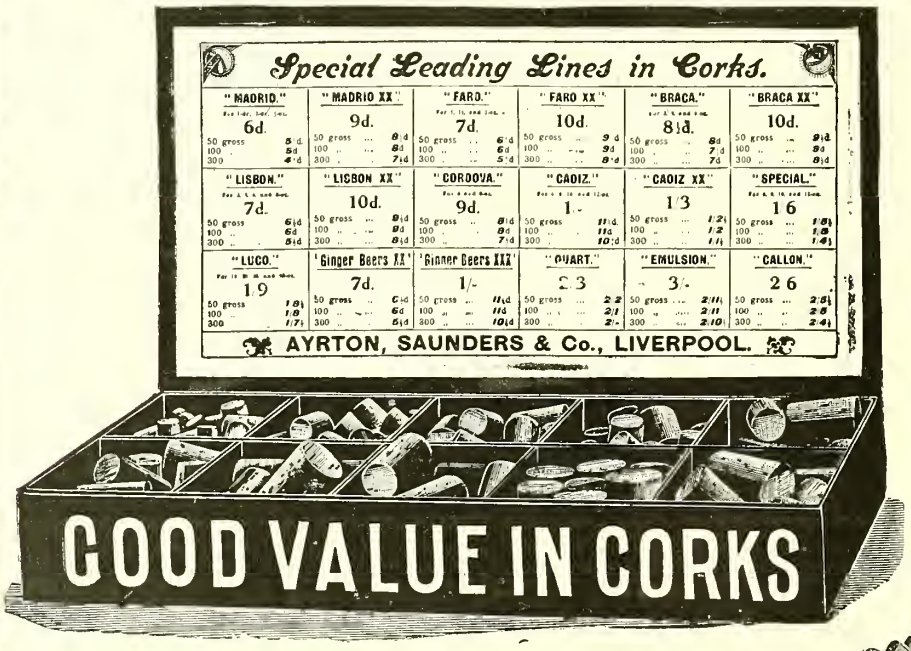

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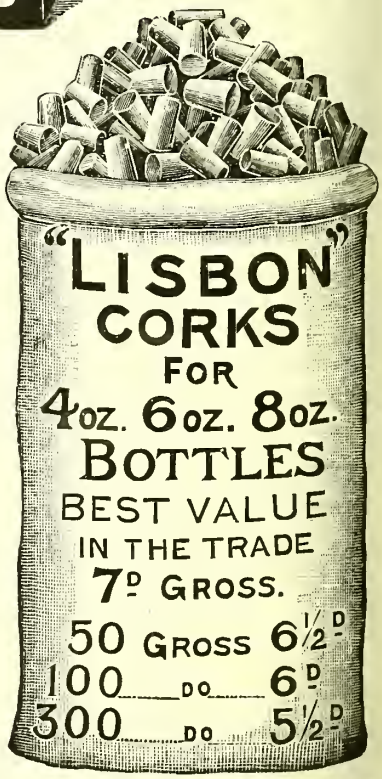

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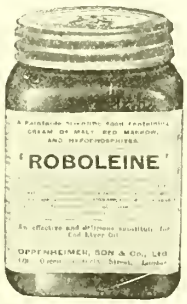

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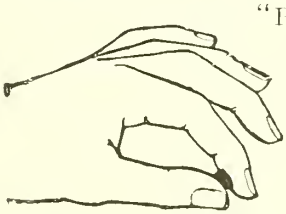

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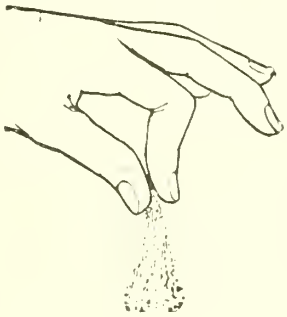

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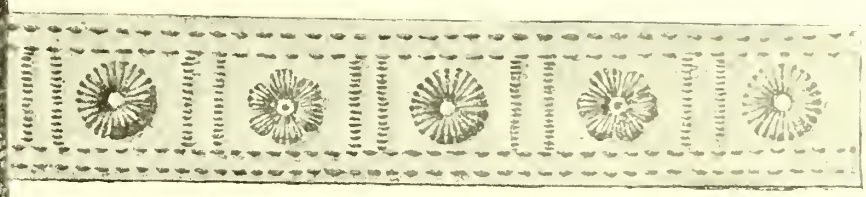
Babylonian Boundary Stone or Kudurru, reciting various law suits carried on throughout three reigns concerning the estate of a Babylonian seer. The sculpture represents a bearded god bearing mace and crook and attended by a horned dragon. The decorative tail-piece is copied from the embroidered head-dress. Date, circa 1200 B.C.



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SOMETHING EXTRA SPECIAL

n booklets has just been produced by the Publishing Department, and all interested in the merchandising of chemists' goods should see it. Its special message is the

SUMMER ISSUE

of THE CHEMIST AND DRUGGIST and the distribution of insets therein. The brochure itself may give to a receptive mind an idea in style for an attractive inset, and the proposition put forward is certainly worth the careful consideration of every advertiser of drug-trade products. Write for a copy, and at the same time tell the Publisher any difficulties you may have with regard to advertising to the trade in this or any other way.

THE CHEMIST AND DRUGGIST,
42 Cannon Street, London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

The black mustard plant is the subject of this week's Minor botany article (p 39).

Niton is the most economical method of applying radium, says Sir William Ramsay, and he tells how to get it (p. 39).

The chemist's liability for injuries to sheep from dipping is discussed by correspondents (p. 70), and "Xrayser II." recalls cases in which chemists of over a generation ago had to pay heavy damages for such injuries (p. 53).

We comment upon the U.S. Board of Agriculture's proposed veto of the guaranty label under the Food and Drugs Act, and the enforcement upon London exporters of a new declaration form as to preservatives and the like (p. 55).

Dr. Leonard Dobbin comments upon the qualitative analysis of a mixture of bismuth subnitrate, potash, alum, and zinc acetate, which was given as the last exercise for students. The prizes are awarded to Mr. V. C. Wilkinson and Mr. R. H. Dennison (p. 38).

The contributor of the short series of articles on inequality of the amount and value of Insurance dispensing concludes with suggestions to prevent discounting of chemists' bills (p. 60). Several correspondents also write on the subject (pp. 70-71), and since the latter pages were made up Mr. G. J. Lindsay (Dundee) also writes appealing to Scottish chemists to take immediate action. He says that chemists in fourteen areas in Scotland have been discounted.

News of the Week.

The *C. & D.* office will be closed on May 30 and June 1.

Chemists in British East Africa have grievances, but they work amicably together for their removal (p. 45).

The new Pharmaceutical Committees under the Insurance Act, 1913, will be elected by the same system as the last (p. 60).

Our Parliamentary correspondent sends a number of interesting items of business done before the Whitsuntide adjournment (p. 51).

The Insurance Commissioners (England) have completed the audit of the 1913 accounts, so chemists who have been paid short may get more soon (p. 55).

Sir Joseph Wilson Swan, F.R.S., died on Wednesday in his eighty-sixth year. We sketch his career from his apprenticeship to a firm of chemists and druggists in Sunderland in 1842 (p. 49).

Mr. Templar Malins, the new President of the Chemists' Dental Society, delivered an address on the revision of the Dentists' Act. This and other matters which arose at the annual meeting on p. 59.

Up to the time of writing, the most important piece of trade news that has transpired at the spring meeting of the General Medical Council is that the new edition of the British Pharmacopœia will be ready in July (p. 58).

New facts in regard to the alkaloid of ipecacuanha were communicated to the Chemical Society by Messrs. Carr and Pyman last week (p. 57). We also report the meeting in the Royal Institution, when Dr. Arrhenius delivered the Faraday Lecture, and was presented with the Faraday Medal. Mr. A. J. Balfour, M.P., was an interested listener (pp. 57-58).

The Judicial Committee of the Privy Council have refused Mr. Thomas Hannah (a Natalian chemist trading in the Transvaal) leave to appeal from a conviction for infringing the Transvaal Medical and Pharmacy Ordinance. The Committee complimented him on his advocacy, and sympathised with him in respect to the harsh sentence, but said the law is against him, and they could not do anything to overrule the facts found by the jury. We report the matter fully (p. 43 and p. 56).

Trade and Market Matters.

Glucose, starches, thymol, tragacanth (fine), acacia gums, and cream of tartar are dearer. Cod-liver oil and cocaine are firmer. Sicilian essential oils are weak, and all on the easier side. Menthol is lower. A moderate quantity of drugs was offered at auction to-day (p. 65).

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus: "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on May Analytical Exercise.

THE powder distributed to students on April 28 contained one part by weight of bismuth oxynitrate, three parts of potassium aluminium sulphate (potash alum), and one part of zinc acetate. The calculated composition of such a mixture is:

Bi	14.6
Al	3.4
Zn	5.5
K	5.0
NO_3	4.3
SO_4	24.3
$C_2H_3O_2$	9.9
H_2O	31.9
O	1.1
	100.0

The powder was free from anything but the merest traces of impurities.

Samples of the powder were distributed to twenty-five students, and fourteen reports were submitted for examination. All the senders of reports were successful in detecting bismuth, aluminium, potassium, and the sulphuric-acid radical. The failures in the detection of the other constituents were: Zinc, 5; nitric-acid radical, 6; acetic-acid radical, 10. Three students failed to report the abundant evolution of water which took place when the powder was heated in a dry test-tube.

This exercise was intended to be simpler in character than those of the tournament series completed last month, and it presented little difficulty apart from that which was incidental to proving conclusively the presence of the acetic and the nitric acid radicals which it contained. Testing for both of these radicals demanded somewhat delicate treatment and careful observation, and it is gratifying to note that a few correspondents succeeded in establishing, by sufficient evidence, the presence of both. The familiar special test for a nitrate, by mean of ferrous sulphate and concentrated sulphuric acid, when applied to a solution of the original powder in the smallest convenient quantity of cold dilute sulphuric acid, gave, after standing for a few seconds, a slight but unmistakable dark "ring" at the interface between the denser and the lighter layers of the liquid. In view of the relatively small proportion in which the nitric-acid radical was present, it was scarcely possible that the indication could be more than slight, but in a carefully conducted test it ought not to have escaped observation altogether if waited for; and in cases where an immediate indication is not observed it is always advisable to allow the test-tube containing the layered liquids to stand aside for a few minutes before coming to any conclusion. The detection of the acetate was, on the whole, more difficult than that of the nitrate. When sent out the powder had a distinct odour of acetic acid, and some students recognised this odour and drew from it the correct conclusion; but the odour became much fainter after a time, while the proportion of the acetic-acid radical in the powder became correspondingly smaller. There still remained enough, however, to yield a perceptible odour of acetic acid on gentle heating with dilute sulphuric acid; and when nearly neutral solution of ferric chloride was added as a test for acetates, etc., in the systematic examination for acid radicals, the characteristic red colour of ferric acetate was produced in a sufficiently pronounced manner to justify amply the conclusion that an acetate was present. It is very probable that the cause of many failures to observe this latter reaction was the employment of a solution of ferric chloride which contained far too much free hydrochlorie acid, whereby the, otherwise possible, production of the red colour of ferric acetate was effectually prevented. For use as a reagent to test for an acetate, the solution of ferric chloride should be so nearly neutral that the addition of one or two drops of a dilute solution of sodium hydroxide to 5 c.c. produces a permanent precipitate of ferric hydroxide, and, correspondingly, it should be yellowish-brown—not pale yellow—in colour. The reagent provided in laboratories is seldom of this character.

Although, as already stated, there were no failures to detect the presence of bismuth, there is some reason to conclude that complete precipitation of this metal as sulphide, by means of hydrogen sulphide, was not secured in all cases—owing, probably, to there having been too great a concentration of hydrochloric acid in some of the solutions treated with the gas. At any rate, the reported presence of magnesium and some other metals was probably based on reactions produced by some bismuth which had escaped precipitation at the proper place.

Prizes.

The first prize for the best analysis has been awarded to

V. C. Wilkinson, 51 Esplanade, Whitley Bay.

The second prize has been awarded to

R. H. Dennison, 23 Cardigan Terrace, Heaton, Newcastle-on-Tyne.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

1. *Correspondents who are unqualified:*

V. C. Wilkinson (first prize)	94	Simili	84
Nomen (non-competing)	94	Nil sine Labore	66
R. H. Dennison (second prize)	93	Kepier	65
Rare Chemical	88	Onyx	65
Kappa	87	Pax	59
Nagiw	84	Monocot	56
		Student	56

2. *Correspondent who is qualified:*

Oxon ... 72

To Correspondents.

R. H. Dennison.—We could not discern any positive indication in a carefully conducted test for traces of a borate.

Rare Chemical.—It seems probable that the trace of calcium you detected came from tap-water or from ordinary filter-papers.

Nagiw.—When heated in a dry tube the powder gave off acetic acid from the interaction of the alum with the zinc acetate, and also sulphur dioxide from the decomposition of the alum. Many sulphates yield sulphur dioxide on heating, and hence the presence of a sulphite should only be reported when the most convincing evidence has been obtained. We were not able to confirm the evolution of hydrogen sulphide on heating the powder with zinc and dilute hydrochloric acid.

Simili.—Your suggestion as to barium having remained in solution as bisulphate is not admissible, as this salt is only produced in presence of relatively concentrated sulphuric acid.

Nil sine Labore.—The odour which you perceived on heating the powder with dilute sulphuric acid was that of acetic acid, not that of sulphur dioxide. It is unfortunate that, with slight indications before you of the presence of zinc, you did not follow these up. Gutzeit is the name of the author of the test for arsenic which you applied. It was quite possible to test for traces of a chloride in the nitric-acid solution of the original powder by means of silver nitrate, and thus to overcome the difficulty arising from your sodium carbonate containing chloride. Read also the reply to "Nagiw."

Kepier.—The precipitate, which you supposed to be manganous hydroxide, probably consisted of zinc sulphide mixed with traces of bismuth sulphide, since, apparently, you did not boil out the hydrogen sulphide from the solution obtained on percolating the ammonium-hydrosulphide precipitate with dilute hydrochloric acid, prior to adding sodium hydroxide to it in excess. Then, later, when you added hydrogen sulphide to the filtrate from this precipi-

tate, no indication of zinc was observed, because practically the whole of the not very abundant zinc was already separated in the precipitate.

Onyx.—Note that manganous sulphide is not precipitated by the addition of hydrogen sulphide to a manganese solution containing free acetic acid, since manganous sulphide is freely soluble in this acid; also that calcium chloride does not yield a precipitate of calcium oxalate in a solution of an oxalate which has been acidified with nitric acid. The absence of any preliminary tests is a serious deficiency in your analysis.

Pax, Monocot, and Student.—We cannot say why you failed to observe any indication of the presence of zinc on adding ammonium hydrosulphide as group reagent.

Oxon.—The presence of the nitric and acetic acid radicals should not have escaped your vigilance. See the general remarks.

Minor Botany.

Being the eighteenth of a series of articles for pharmacy students which commenced on January 3, 1914.

THE black-mustard plant (*Brassica nigra*, Koch) is readily distinguished from the white variety by the upper leaves being free from hairs (glabrous) and the seed-pods erect or nearly so. The specific designation is derived from the dark colour of the seeds, which is a deep red-brown to nearly black. Although so tiny, mustard-seeds are full of interesting points. The thin brittle seed-coat (testa) has a mucilaginous outer layer which enables the seed to adhere to damp soil, where it is most likely to germinate. The interior (or kernel) consists of an embryo or young plant packed into the minimum of space, the first two leaves or cotyledons being folded, and embracing the young root or radicle. No endosperm is present in the ripe seed, which is accordingly designated exalbuminous (*cf.* barley). The reserve materials, stored chiefly in the cotyledons, consist mainly of oil and proteid. Starch is present in the unripe seed, but is converted into oil, which has a greater carbon and hydrogen content than starch, and is thus more concentrated. Fluidity of oil is a further advantage over starch grains, because it will fill any interstices and enable the best use to be made of the limited space available. The reserve food serves on germination to give the young plant a start until the cotyledons appear above the surface of the ground (epigeal), when they become green and capable of building up further food-supplies. In bulky seeds with plentiful reserves, such as peas (exalbuminous) and wheat (albuminous), the cotyledons usually stay below the surface (hypogeal). A striking property of black-mustard seeds is the development of a pungent odour and taste when crushed and moistened with water. This is due to the action of a ferment (myrosin) on a glucoside called sinigrin, whereby the latter is split up into pungent allyl isothiocyanate, sugar (dextrose), and acid potassium sulphate. Volatile oil of mustard (chiefly allyl isothiocyanate) does not exist as such in the seeds, sinigrin and myrosin being stored in separate cells. Hot 80-per-cent. alcohol will extract sinigrin, at the same time destroying the myrosin. Boiling with water also coagulates the ferment and prevents development of pungency in seeds so treated. White-mustard seeds on crushing also develop a biting taste after moistening with water. This is due to the decomposition of a glucoside (sinalbin) with myrosin, but the pungent principle (acrinyl isothiocyanate) is not volatile, so that it is devoid of pungent odour and lachrymose effect. The mustard of commerce is a mixture containing both black and white mustard. Formerly it was supposed that black-mustard seeds were deficient in myrosin, and that the addition of the white variety of seeds containing an excess of ferment ensured a maximum of pungency. Recent experiments prove that there is sufficient myrosin in black-mustard seeds to decompose all the glucoside present, and, further, that the ferment retains its activity for many years.

Brassica nigra.

MEDICAL MEMORANDA.

Niton as a Therapeutic Agent.

Sir William Ramsay, in "The Lancet" (1914, I., 1481), describes an apparatus he has devised for collecting niton from radium bromide, with a view of utilising the gas for medicinal purposes. Sir William considers that niton is the most economical method of employing radium, as the collection goes on continuously and there is less risk of losing radium. The radiating power of niton is 75 per cent. of that of the radium from which it is derived. It is true that niton decays, but it can be used at any moment when its "strength" is known accurately, and a curve can be sent to the user which will enable him to know exactly what he is doing when he applies the active material. For this purpose the niton must be introduced into appropriate forms of apparatus—tubes, bulbs, and hollow flat discs, preferably made of nickel. The apparatus referred to enables this to be carried out with accuracy. It involves a provision for sparking the hydrogen and oxygen so as to obtain residual niton. The yield of mixed hydrogen and oxygen from 500 mgm. of radium bromide amounts to approximately 25 c.c. in a week.

Combinations of Drugs.

The "Journal of the American Medical Association" summarises the recent researches of Bürgi, of Berlin, on the modification of the action of drugs by combining them. Bürgi draws a sharp distinction between mere summation of the effects of combined drugs and enhancing of the potency of each by their combination. It seems to be a law, he says, that combining drugs of the same series which have the same pharmacologic point of attack merely adds by summation of their individual actions. On the other hand, drugs of the same series, but which have separate pharmacologic points of attack sometimes seem to have the potency of each enhanced when they are combined in certain proportions. He mentions as an example of this that belladonna preparations have no narcotic action alone; if the dose is large enough to induce anæsthesia, other symptoms are produced which prevent a narcotic influence. But if a small amount of some belladonna preparation is mixed with one of the ordinary narcotics, the action of the latter is materially enhanced. He calls attention also to the curious fact that the combination of two drugs, each in half the dose found to be the limit dose for general anæsthesia, showed that the potency of each was somewhat weakened by the combination, but then, if the dose of each was reduced still smaller, the potency of the mixture increased, and this was manifest down to extremely small doses. These experiences show that with the actual limit dose a reversal of the action of the drug has to be reckoned with. He found that the various organ extracts acted on the heart each in a different way, each influencing a different segment of the heart, so that there can be no question of summation or enhancing the potency by combining organ extracts.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

The death of Paul Gilbert Moxon (19), chemist's assistant, Barnsley, was due to an internal injury caused by a fall during a friendly boxing spar with his brother.

The medicated-wine licence attached to the pharmacy at 25 Bolton Street, South Shore, Blackpool, was transferred on May 20 to Mr. Oscar Gillibrand, chemist and druggist.

During the hearing at Winchester of a charge of attempted suicide, potassium ferricyanide was described by Dr. Coleclough, police surgeon, Winchester, as "a strong poison used in photography."

Mr. R. T. Simpson, chemist, 60 North Road, Lancaster, distinguished himself in a rifle-shooting match between Lancaster and Malton in the fifth round of the National Team Competition by scoring 100, the highest possible total.

At Bow Street Police Court on May 21, the hearing of the charge of false pretences against John Highwater and Lily Grinyer (*C. & D.*, May 23, p. 791), was continued and again adjourned, after Mr. Ghobral had been recalled and cross-examined.

The President of the Board of Agriculture recently intimated that the question of controlling the preparation, supply, and use of tuberculin for cattle is under consideration. A correspondent of "The Times" protests against any attempt to confine the sale of tuberculin to doctors and veterinary surgeons.

The Right Hon. Lord Rayleigh, O.M., F.R.S., The British Drug Houses, Ltd., and the Cambridge Scientific Instrument Co., Ltd., have recently become members of the Secret Commissions and Bribery Prevention League, of which Sir Edward Fry is President and Mr. David Howard Chairman of the Executive Committee.

British Pharmaceutical Conference.

Through the good offices of Mr. W. P. Evans (Messrs. Evans Sons Lescher & Webb, Ltd.) and the courtesy of the Chester Golf Club, a day's golf has been arranged for Conference visitors at Chester. It will be on Friday, July 24, and a competition has been organised. We are asked to tell those who combine the pursuit of the golfing pilule with that of the pharmaceutical to note the date and see that their golf-clubs are included with other necessities for the visit. Further particulars will be issued in due course. Mr. D. T. Williams, 6 Northgate Street, Chester, is the assistant golf steward.

Guardians' Doings.

Miss Mullett has been engaged by the Camberwell Guardians to act as holiday dispenser.

Mr. George Bisley, pharmacist, has been appointed by the Bermondsey Guardians as temporary dispenser at their Rotherhithe Infirmary, at a salary of 3*l.* 3*s.* a week.

Sale of Food and Drugs Acts.

Nineteen samples of drugs were submitted last quarter to the Kent county analyst: all were passed as genuine, though one sample of spirit of nitrous ether was returned of inferior quality.

The Southend Corporation last week decided to adjourn consideration of a letter from Dr. Bernard Dyer, formerly public analyst for the area comprised within the borough, claiming compensation for loss of fees consequent upon the constitution of the borough into a county borough.

The Poplar Borough Council have resolved to continue for a year the appointment of Mr. W. C. Young, F.I.C., as public analyst. Mr. Young is sixty-five years old next July, and consequently is eligible to retire on a superannuation allowance of 120*l.* per annum. The number of samples submitted for analysis is to be increased from seven to fourteen per week, the analyst's remuneration being accordingly increased from 233*l.* to 369*l.* per annum. The Council were informed that the appointment of a new public analyst would cost not less than 500*l.* per annum, or, with the addition of 120*l.* per annum payable to the retiring analyst, a total of 620*l.* per annum. Mr. Young's period of service is extended subject to the conditions that such extension or any future extensions from year to year, and any increase in emoluments, be excluded in calculating the superannuation allowance to which he may be entitled on retirement.

Harrogate Notes.

The Corporation renewed three poison-licences recently.

A few chemists have adopted the uniform described in our Winter Issue, with good effect. In one pharmacy they were seen a fortnight after the particulars and illustrations were published.

The town is expecting to have a good season. Chemists in particular seem to be laying themselves out for a record trade. Their shops have a spruce appearance with the well-dressed windows and bright interiors that mean business.

The Yorkshire Hussars, the Mounted Brigade Transport and Supply Column of the Army Service Corps, a section of the Royal Army Medical Corps, and the Northumberland Hussars are to be under canvas in the immediate neighbourhood during the next few weeks. This should mean more business, as there will be well over 1,500 officers and men in camp.

"Closed" is the unpretentious finish to the business carried on by Mr. C. E. J. Eynon (who has now gone abroad) in James Street. For some little time the business has been in the hands of a manager, and it was expected that it would shortly be closed. During the last three years there have been eight or nine changes in Harrogate pharmacies, either of proprietorships or new businesses being opened.

The sale of the fixtures, fittings, and stock of the pharmacy at 13 James Street, Harrogate, on May 27, is probably unique in the history of the drug-trade in the town. A very large stock, perhaps not stored under the best conditions, was offered for sale. The goods offered included a large amount of apparatus for a private chemist—viz., a complete *x*-ray apparatus, a centrifugal machine, several stills, microscopes, electric batteries, a steriliser, capsule and tablet making machines (the catalogue stated "A tablet machine by —— and a *Tabloid* machine"), several ointment-presses, condensers, retorts, flasks, and hosts of other things. The total of over 200 lots, several of them large, such as 176 bottles of drugs from the warehouse, many being Winchesters, only realised the sum of 177*l.* 2*s.* Some of the striking prices are here given:

X-ray apparatus by Cox, 5*l.* 10*s.*

The wall-fittings in mahogany, which probably cost 150*l.* to 200*l.*, 7*l.* 15*s.*

The shop-rounds and contents were about 1½*d.* each on the average.

Five Brownie cameras, ten d.d. slides, fifteen lens-caps, two sets autochrome photography, eleven Ensign roll films, and quantity of photographic sundries fetched 12*s.*

For a man commencing business there were wonderful bargains. A local man is reported to be a large buyer, rumour also saying that his business has just been privately sold. That will make another change in addition to the many that have taken place in recent months.

Liverpool Notes.

It was impossible for chemists to obtain their usual supply of syphons of aërated waters last week owing to a strike for a "minimum wage" of the carters of mineral-water makers. This is now settled.

Some chemists were among the tradesmen victimised recently by a man who sold them "Osram" lamps at 1*s.* each (usual price 2*s.* 8*d.*), purporting that the lamps had been used for illuminating purposes during the Royal visit to Birkenhead. A visit from the police demanding the return of the lamps apprised them that they had been removed from a local church, and that the culprit had been caught.

The following twelve gentlemen have been appointed the official delegates from the Liverpool Chemists' Asso-

iation to the British Pharmaceutical Conference at hester: Sir Edward Evans, Dr. Charles Symes, Messrs. Iarold Wyatt, H. Humphries Jones, F.C.S., G. V. C. ast, L. Moreton Parry, A. C. Abraham, W. F. Laycock, I. H. Marsden, W. P. Evans, D. H. Evans, and E. 'rebble.

Sheffield Notes

The annual picnic of the Sheffield Pharmaceutical and hemical Society has been fixed for June 18, being by iotor to the Dukeries.

Mr. F. Medley has an opportune display of Dr. assell's tablets in his pharmacy at Firvale, as all post-ig stations in the district display the effective poster dvertising this proprietary.

The Sheffield Guardians spent 1,913*l.* 14*s.* 10*d.* on rugs last year, compared with 1,512*l.* 15*s.* 7*d.* six ears ago, the corresponding daily average of patients in ospital being 639 and 482 respectively. There is also n increase of over 33 per cent. in the out-relief rug account. The expected decrease in Poor-Law iedical work owing to recent legislation has not been ealised in Sheffield.

"Zoo-loo" and "Zam-buk."

At the South-Western Police Court, London, on Iay 27, Ernest Fenton (35), chemists' sundriesman rading as the Ernest Yorke Manufacturing Co.), 8 Penshurst Road, Thornton Heath, again appeared be-ore Mr. Lister Drummond on remand to answer a charge f obtaining money by false pretences by palming off Zoo-loo" for "Zam-buk" (see *C. & D.*, May 23, p. 8). Ir. Coutts Trotter, who prosecuted, called further vidence. Robert C. Pallet, manager of an oil-and-colour hop at North Cross Road, East Dulwich, said that in Iarch last the accused called on him and asked him to ike up a new ointment manufactured by the Zam-buk o. He explained that in order to avoid the stamp-duty he ointment would be called "Zoo-loo." Witness agreed o make a purchase on the condition that the firm would reate a demand for the article by canvassing by girls rom house to house in the neighbourhood and also buying ack two-thirds of the article purchased by witness. Ierbert John Mills, who in February last was manager f a general store at 1 Lower Terrace, Woodcote Road, Norwood, and Laura Harrison, grocer, 2 Auckland Hill, West Norwood, gave similar evidence. Mr. Joseph Ivatt, London manager of C. Fulford, Ltd., Leeds, proprietors f "Zam-buk," said the prisoner had no connection with hat company, and "Zoo-loo" was a colourable imitation f "Zam-buk" and not manufactured by Messrs. Ful-ord. The prisoner was committed for trial and allowed ail for his appearance.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Sir William Whitla, Ph.C., has been elected a member f the Committee of the Belfast and District Branch of he Royal Medical Benevolent Society.

For stealing a barrel, the property of Messrs. Mortimer Co., druggists, William Street, Londonderry, a man amed Bertie Reid was on May 25 sentenced to three ionths' imprisonment.

The pharmaceutical assistants in Dublin are again con-idering the formation of an assistants' association. The hief reason urged is the possibility of relaxing the everity of the examinations as the result of combined ffort.

Mr. James Ryan and Dr. T. O'Brien have opened a new iedical hall at Thomastown, co. Kilkenny, under the ianagement of Mr. H. Grainger, Ph.C., late of Hamilton, ong & Co., Dublin, and of Burgon's, Manchester.

At an inquest in Newtownards, co. Down, on May 22 n the body of a woman who had died from drinking iethylated spirit, the foreman of the jury expressed the pinion that something should be done to stop the sale of iethylated spirit.

Guardians' Doings.

The tender of Messrs. Connor & Sons, Newry, for supplying an artificial leg for a patient in the local work-house has been accepted by the Newry Board of Guardians.

The Medical Officer of the Clonmel Union has reported to the Board of Guardians that the medical appliances supplied by Messrs. Connor, the contractors, were not of good quality and did not bear the makers' mark. It was decided to lay the facts before the L.G.B.

The South Dublin Board of Guardians at their last meeting considered the application of Mr. Keawell for an increase in salary (see *C. & D.*, May 23, p. 83), and decided to postpone further consideration of the question for six months. This decision was partly due to the receipt of an application for the position from another pharmacist.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

The annual report of the Executive of the North British Branch of the Pharmaceutical Society has been circulated in typewritten facsimile.

Mr. James Simpson, chemist, Music Hall Buildings, Peterhead, has secured the contract for the annual supply of medicine to the local Parish Council.

Mr. Angus McDonald, chemist, was elected to the Dunfermline School Board on May 25, but Mr. W. T. Louden, a second candidate from the drug-trade, failed to secure a seat.

Edinburgh.

Business is again very quiet, although Insurance prescriptions are more numerous than at this time last year.

"A Rare Evening's Sport" is the heading of the circular announcing the events at the twenty-third annual sports meeting of the Edinburgh Pharmacy Athletic Club at Portobello on June 10.

Dr. John Spence, 22 Pitt Street, Edinburgh, who has for the last fifteen years been engaged in *x*-ray work, has lost the greater part of his right hand, the thumb and forefinger only remaining, owing to dermatitis.

Glasgow and the West

A homœopathic hospital has been opened at 5 Lynedoch Crescent, Glasgow. It is estimated that 1,000*l.* per annum will be required for its upkeep.

Percival Baker was sentenced to twelve months' hard labour at the Glasgow Sheriff Criminal Court on May 25 for various offences, including presenting a fraudulent cheque for 2*l.* to a chemist.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

The Lyons Exhibition.—The International Exhibition at Lyons was formally opened by President Poincaré on May 24 with much ceremony. The exhibits, however, are by no means complete so far. Considerable delay has occurred owing to a storm which damaged some of the exhibition buildings several weeks ago.

Chambers of Commerce.—An International Congress of Chambers of Commerce will be held in Paris during the week beginning Monday, June 8. It is to be attended by delegates from twenty-six Chambers in the United States, and Mr. Samuel W. Fairchild, of New York, will be one of the four delegates from the Chamber of that city. The Chambers in Great Britain and elsewhere will also be represented.

Metchnikoff's Jubilee.—The Paris Pasteur Institute proposes next year to celebrate in a suitable manner Professor Elie Metchnikoff's seventieth birthday, which coincides with his scientific jubilee, the eminent bacteriologist

having taken his D.Sc. in 1865. A committee has been formed, with Dr. Roux as chairman, to offer the professor an "official and amical souvenir" of his attainment of the Scriptural limit of three-score years and ten.

Fabre's House.—A subscription has been started to purchase the house of J. H. Fabre, the well-known French entomologist, for preservation as a public museum. The President of the committee is M. Raymond Poincaré, and the members include MM. Louis Barthou, Maurice Barrès, Jean Richepin, Edmond Rostand, Thierry, Bouvier (Academy of Sciences), and Edmond Perrier (Director of the Paris Museum of Natural History). M. de la Paillonne, Mayor of Serignan, receives subscriptions.

Preaching Price-protection.—The Paris Wholesale Druggists' Association recently received a letter from the owner of a mineral-water depôt, complaining that the druggists were selling his products at only a little above cost price. Paris mineral-water dealers had drawn attention to the fact. The President of the Druggists' Association immediately telephoned to the dealer in question, and asked if he had taken the usual method of protecting the prices of his goods by joining one of the French P.A.T.A. schemes. The reply being in the negative, the President suggested that such would be his best remedy.

Pasteur at the Ecole Normale.—M. Ernest Lavisse, in the "Revue de Paris," tells of his schooldays half a century ago (1862), and incidentally gives us a glimpse of Pasteur as a schoolmaster, or, rather, to give him his exact title, "Sub-director," of the Paris Ecole Normale. He tells us how the great chemist was obliged, according to regulation, to hunt for forbidden literature in the students' desks, and how a "perquisition" thus affected at 6 A.M. resulted in the confiscation of an edition of Goethe, Michelet's "Sorcière" and two back numbers of the "Revue des Deux Mondes." The owners of such subversive prints were duly "kept in" as the rules directed. Pasteur's reproof to six students for cigarette-smoking and his declaration that he would expel any lad found smoking in future, raised a revolt. Sixty-five students resigned, and the Minister of Public Instruction personally called at the school to secure an amicable settlement of the dispute.

Carriage of Liquids.—The action of certain railway companies in refusing to accept for transport bottles of pharmaceuticals and other liquids protected by the usual boxes of ribbed cardboard has been taken up by the French Pharmaceutical Manufacturers' Association (Syndicat des Produits Pharmaceutiques). This body has communicated to the Wholesale Druggists' Association and other trade societies the draft of a letter which it proposes to address to the Minister of Commerce on the subject. French railway companies are legally responsible for damage to goods in transit, unless they can prove insufficient or unsuitable packing. There is, consequently, a tendency on their part to criticise, and even to refuse to receive, any comparatively novel or special form of packing. The regulations state that "liquids and fatty matters easily liquefied" must have a double recipient. Between the first (bottle, pot, box, etc.) and the second (box in metal or strong wood) a space should be left with sawdust or other absorbent matter. So much for the letter of the law. The pharmaceutical manufacturers point out that strong cardboard is more elastic and less likely to let moisture pass through than a light wooden box.

The Paraffin-habit.—(Doctors generally are prescribing refined paraffin for various complaints.) *Mistress*: "The oil finished again, Mary? It seems to go very quickly." *Cook* (who holds a paraffin-oil can in her hand): "It's the Master, Mum. Whenever 'e runs out of 'is 'refined' 'e comes a-dipping into this 'ere."—*Punch.*

Week-end Cables.—The Government of India have approved a proposal submitted by the cable companies for the introduction of a system of week-end cable letters which will at present apply to messages between India and the United Kingdom, Germany, South Africa, Australasia, and the Far East. The rates will be one-fourth those of the ordinary rates, the minimum being twenty words. They must be despatched from the sending-office not later than Saturday night, and will be delivered to the addressee the following Tuesday.

CANADIAN NEWS.

(From the "C. & D." Correspondent.)

Victoria Retail Druggists' Association.—At t April meeting it was resolved that in future the drugg must call upon the physician who prescribes habit-formi drugs to ascertain his intentions before the prescripti is made up, and that nurses are not in future to be su plied with emmenagogue or habit-forming drugs witho an order from a physician.

B.C. University.—The Board of Governors of t University of British Columbia have appointed D Douglas McIntosh as Associate Professor of Chemist and acting head of the department. Dr. McIntosh w born in Nova Scotia, and graduated from Dalhousie (B. and B.Sc.), Cornell (M.A.), and McGill (D.Sc.). He w the holder of one of the 1851 Exhibition scholarships fro 1896 to 1899.

Hoffmann's Drops are, it is stated by the "Victor Colonist," being sold at Fort George as a beverage the navvies employed on the railway contracts. T remedy is stated to be packed in bottles holding an eigh of a pint, each bottle selling at 50c. The new paper refers to this as a new drug, but the "Briti Columbia Pharmaceutical Record" not only shows that is an old galenical, but that the Pharmacy Council broug the matter before the Attorney-General's Departme some months ago.

British Goods Campaign.—The Canadian Chamber Commerce in London is organising a campaign which h for its object the increase of the proportion of Briti goods imported to Canada. Among the steps which a being taken is the constitution of a trade fund to pr vide money for investigating methods of transportatio distribution, publicity, and confracting. If sufficie money is available, experts will be appointed to invest gate special questions connected with particular trade The compilation of a Canadian "Trade Guide," a car index of goods suitable for the Canadian market, and distinguishing trade-mark for the use of members a other suggestions put forward in the programme of t campaign. The new address of the Canadian Chamber Commerce is Oxford Court, Cannon Street, London, E.

Weights and Measures Regulations.—Amendments the Weights and Measures Regulations which are no operative have been printed by the Government Printi Bureau, Ottawa. These apply to imported scales as we as those made in Canada. The schedule of toleration f chemists', druggists', and assay beam-scales is as follows

Capacity of Machine	Sensitiveness when fully loaded	Greatest error allowed in excess or deficiency when fully loaded
1 oz.	0.05 grain	0.1 grain
1 lb.	0.1 ,,	0.2 ,,
10 lb.	0.5 ,,	1.0 ,,
25 lb.	1.0 ,,	1.5 ,,
50 lb.	1.5 ,,	2.0 grains

Schedules of toleration are also given for other varieti of scales not used in the drug-trade. An exception fro the stamping regulations is made in the case of phot graphers' scales "used for solution-mixing, when pe manently branded 'Photographer's scale' and not excee ing 16 oz. in capacity," which may be sold unstamped.

Inland Revenue Laboratory Reports.—Among t reports of the Laboratory of the Inland Revenue Depar ment, Ottawa, which have been issued recently, are t following: No. 275 deals with tomato-ketchup, of whi seventy samples were examined. Of these 74 per cen contained preservatives, and in each case this was benzo acid, representing probably benzoate of soda, which h displaced salicylic acid as a preservative for this produc The use of benzoate of soda is not forbidden in Canad as convincing evidence of its harmfulness to health is n

orthcoming. Bulletin No. 277 deals with tincture of odine. Out of seventy-two samples, sixty-two are reorted as genuine, two as doubtful, and eight as adulerated, the adulteration consisting of the presence in the incture of methyl alcohol. One of the doubtful samples as a colourless tincture, and the other was a stronger prearation. Bulletin No. 278 refers to eighty-six samples of nfants' and invalids' food. These represented thirty rands of food. No adulteration was found in any of hese foods, which are, the chief analyst states, all of alue "under certain conditions."

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

The Union.

The Quarter's Trade.—During the three months ended Iarch the imports of drugs, chemicals, and apothecaries' ares into the Union of South Africa were valued at 28,114*l.*, against 224,521*l.* in 1913. Among the items ere: Medicines, 30,298*l.* (1913, 29,498*l.*); apothecaries' ares of all kinds, 40,383*l.* (1913, 31,301*l.*); disinfectants nd germicides, 12,566*l.* (1913, 10,426*l.*). Not included n the above is glycerin for manufactures, the imports of hich substantially declined, being only 2,761,753 lb. 94,009*l.*), against 3,589,661 lb. (130,395*l.*) for the correponding period of 1913.

Cape Province.

Mr. Neil Mackay, chemist and druggist, formerly of umbarton, Scotland, who has been in South Africa for me time, has purchased the business of the late Mr. E. ape Skinner, Lansdowne Road, Claremont, near Cape own.

Natal.

Travellers' Movements.—Mr. W. Marshall, of L. T. iver, and Mr. Magness Elgar, of F. Stearns & Co., were Durban when the mail left.

Dengue Fever appears to be rather bad in Durban just present, an epidemic having broken out. Consequently, hemists are kept busy dispensing the necessary medicines.

Business Change.—The pharmacy of Messrs. Oliff Bros., urban, has been taken over by Mr. Milne, of Messrs. eed & Champion. The new firm will trade under the ame of Messrs. H. G. Milne & Co.

Personal.—Mr. W. J. Farland, of the Duguza pharacy, Stanger, and Empangeni, has just returned from a ree and a half months' trip to New Zealand.—Mr. obertson, chemist, of Malvern, has sailed for England, nd while in the Old Country will make his headquarters Edinburgh. Mr. Skelton, of Lennon's, is relieving him uring his period of absence.—Two marriages of chemists' aughters took place in April, these being respectively e daughters of Mr. W. J. Walker, of Maritzburg, and r. T. J. Brickhill, of Estcourt.

Transvaal.

The Pretoria Drug Co. have removed into new preises, their old building having been demolished. The w pharmacy marks a decided improvement, the red-led roof lending a very pretty effect. The doctor's nsulting-room, access to which was formerly through a de entry and a back door, is now close to the pharmacy roper, this being a great convenience. Mr. Jones is in arge, and reports that business has considerably imroved since the removal.

Cutting among Chemists.—Fierce competition and tensive cutting of prices are taking place among Pretoria emists at the present time. One firm advertise that ey are willing to give "100 per cent. off all prescriptions spensed" by them, and two other firms advertise that ey are giving "200 per cent. off." What this actually eans is best known to the advertisers. Apart from this, any articles are being sold below cost. The matter is ving the attention of Mr. E. Blake Jardine, General ecretary of the P.A.T.A.

Pharmacy in the Transvaal.

Hannah v. Regem before the Judicial Committee of the Privy Council, London.

A petition of considerable interest to pharmacists came before the Lord Chancellor (Lord Haldane), Lord Fletcher Moulton, Lord Parker of Waddington, Lord Sumner, and Sir Joshua Williams, sitting as the Judicial Committee of the Privy Council at the Council Chamber, Downing Street, London, on May 25. It was presented in person by Thomas Hannah, apothecary and chemist and druggist, Amersfoort, Wakkerstroom, Transvaal, whose case, which has up to now been heard in the South African Courts, has been referred to several times in The Chemist and Druggist. The petitioner asked for special leave to appeal from a judgment of the Supreme Court of South Africa at Bloemfontein on September 19, 1913, affirming a decision of the Circuit Court at Wakkerstroom on April 18 of the same year. He stated that he was an apothecary, chemist, and druggist, registered in Natal, and that he had two distinct grievances: (1) that he had been convicted and vindictively sentenced, without proof, for criminal offences, and (2) that the Courts had misinterpreted Section 39 of Transvaal Ordinance 29 of 1904. The indictment charged him with "practising or doing or performing acts specially belonging to the calling of a medical practitioner or chemist or dentist." He was convicted on thirty-three counts, and penalties amounting in the aggregate to 495*l.* were inflicted upon him, or the alternative of two years and nine months' imprisonment with hard labour. The facts were these: Being unable to obtain registration in the Transvaal when he settled there to practise as an apothecary and chemist and druggist, he dropped his titles and conducted his business under the style of "Depôt Hannah's Remedies." Thereupon the authorities instituted proceedings against him under the Ordinance. He submitted that, as unregistered practice is not prohibited by Transvaal Ordinance 29 of 1904, and practice cannot be proved until a name or title is assumed, the indictment stated no offence. It was not proved that the acts wherewith he stood charged were acts specially belonging to the calling of a medical practitioner, or chemist, or dentist, respectively. He had assumed no name or title implying that he was a medical practitioner, or chemist, or dentist, nor that he was registered to practise as such in the Transvaal. The indictment was vague in that it did not state definitely the offence or offences, and was handed to him only seventeen hours prior to the trial, and late on the afternoon of the day. He understood that the indictment charged him with "practising," which any person would understand to be one offence. The jury empanelled were Dutchmen, all of them quite illiterate, and none of whom understood English. An interpreter was procured, but proved quite incompetent, and collapsed at the beginning. He then had to conduct his defence in English—a language not understood by the jury. On the misdirection of the presiding Judge the jury found him guilty, but recommended him to mercy. The mercy shown him by the presiding Judge was the splitting up of one offence of practising into thirty-three sections, and fining him 15*l.* on each. Only seventeen out of a total of forty-eight witnesses had been examined, and not one atom of proof of guilt had been forthcoming. Further, no attempt was made to prove that the acts wherewith he stood charged belonged specially to any particular calling. The confusion in the case was occasioned by the misinterpretation of Section 39 of the Ordinance. His interpretation was based on the Privy Council's interpretation of the English medical, dental, and pharmacy

Mr. T. Hannah.

laws, which are the parent laws of the Empire, the model of the Register having served for Great Britain and all the British dependencies, the fundamental principles of which were identical. The principles of the Register were recognition, exclusion, erasion, and restoration which gave the controlling bodies great power for either good or evil. These bodies need not register any practitioner, whatever his qualification, unless they chose to do so, with special exceptions. This enabled the exclusion of foreign diplomas. Until a name or title should have been assumed, it was impossible to tell by the mere performance of an act which calling a person practised. There is no law in existence which gives to dentists only the right to, say, extract teeth; to chemists only, say, the right to mix or compound medicines; to medical practitioners only, say, the right to diagnose and prescribe.

The petitioner stated that he asked for leave to appeal against a decision of the Supreme Court of South Africa. He had already given the Registrar of the Privy Council three copies of his petition, so that there was no need for his reading it.

The Lord Chancellor said the Committee had read it and had a knowledge of the facts. "You were prosecuted under Section 39 of Ordinance 29 of 1904 of the Transvaal," which is as follows:

"Any person who shall wilfully and falsely pretend to be, or take or use the name or title of a physician, doctor of medicine, licentiate in medicine or surgery, bachelor of medicine, doctor, surgeon, general medical practitioner, or apothecary, or dentist, or chemist, or druggist, or any name, title, addition, or description implying, or calculated to lead people to infer, that he is registered under this Ordinance, or that he is duly qualified to practise as a physician, doctor of medicine, or surgeon, or licentiate in medicine and surgery, bachelor of medicine, doctor, general medical practitioner, or apothecary, or dentist, or chemist, or druggist; and any person who shall practise or shall do anything or perform such acts as specially belong to the calling of a medical practitioner, dentist, or chemist or druggist respectively, without such registration as aforesaid, shall be liable to a fine not exceeding 100*l.* for each offence, and in default of payment he shall be liable to imprisonment, with or without hard labour, for a period not exceeding six months, unless such fine be sooner paid."

The convictions against which you ask leave to appeal were under the last part of that section. What the jury and the Courts below said was that you had acted as a druggist and also as a dentist. They said they had found you had sold drugs, and I think there is no doubt that you did sell drugs. They also said that you had performed dental operations, and you were found guilty on both charges.

The Petitioner: I contend that Section 30 of Ordinance 29 covers only fraudulent practice and nothing else. It does not prohibit *bona-fide* practice, otherwise it would wipe out of existence all other schools or systems of medicine or healing other than allopathic or the orthodox system. The dictum that nothing is unlawful until prohibited by Act of Parliament in express terms being unimpeachable, it is not unlawful for unqualified or unregistered practitioners to practise. Section 39 does not define the functions of the various callings enumerated therein. The functions of the various callings are not defined in any law extant, and therefore we cannot allocate any given act to any particular calling until a name or title shall have been assumed, and hence we cannot prove that a person has practised any specific calling if he has not assumed a name or title indicating which particular calling he is practising. Every practitioner is known by his degree or diploma to enable people to distinguish the quality or kind of his education and training. A chemist and druggist is a "general medical practitioner," for he practises pharmacy, medicine, surgery, dentistry, optics, etc., and has done so for succeeding generations and from time immemorial, there being no law to the contrary, and the dictum that nothing is unlawful until prohibited by Act of Parliament in express terms is unimpeachable. There is nothing in the Ordinance to prevent anyone from practising medicine, dentistry, or pharmacy and accepting payment, provided he does not assume misleading names or titles. The Courts will not enforce payment until a practitioner is registered, which means legally and officially recognised as qualified. The offence of fraudulent practice is one offence only, and punishable by a maximum penalty of 100*l.*, or six months' imprisonment and this penalty is not cumulative. In my case the prosecution was bound to prove the charges against me, but there was no proof before the Circuit Court that I had practised as a doctor, dentist, or chemist in this indictment.

The Lord Chancellor: These contentions may have no bearing upon the decisions of the Court below against which you are now appealing. You have been convicted by a jury of having treated a number of people, of having sold drugs to people. You admit that you did supply drugs. You contend that the words "wilfully and falsely" govern the first part, but not the second part. But the section is in two parts dealing with two separate and distinct offences. The first is that of wilfully and falsely pretending to belong to any of the stipulated callings, but the second part is quite separate:

"Any person who shall practise or shall do anything or perform such acts as belong to the calling of the medical practitioner, dentist, or chemist, or druggist without such registration"

shall be liable. You admit you sold drugs and practised as a dentist without being registered, and you were convicted under the second part. You cannot get out of that.

The Lord Chancellor further pointed out the function of the Privy Council is not that of a Court of Appeal but to advise the King in exceptional cases to interfere under some points which show that there has been some gross miscarriage of justice. It is not enough for you to say (continued his Lordship, addressing the petitioner) that the judgment of the Courts below was irrevocably wrong. You must show us that there was either some gross illegality, some strong grievance against the Court, or some gross miscarriage of justice. You must show us on reference to the section that the Courts below acted illegally. Now, the section says it is an offence to practise as a medical practitioner or a dentist or a chemist or a druggist unless you are registered. Now, it is common ground between us that you did supply drugs and that you did practise as a dentist. There is nothing in the second part of the section about wilfully and falsely pretending to belong to any registered calling, and it was under the second part you were convicted. That is the only point that we can deal with, unless you can show grounds for our doing so.

The Petitioner: The section as it is does not prohibit any particular act of any calling.

The Lord Chancellor: The section does prevent your practising. It says you shall not practise or do anything or perform such acts as belong to the callings without being duly registered. You did those things, you were not registered to do them, and you were convicted.

Lord Fletcher Moulton: There is nothing about the selection or assumption of a name or title. It depends on the act that you do, and the point arises, Does that act belong to the calling of the medical practitioner, the dentist, or the chemist? Well, now, the act of dentistry which you performed belonged to the dentist, the act of drug-selling belonged to the chemist or druggist; there is no doubt about that?

The Petitioner: Nothing is said in the Ordinance or in any other law of the functions of the different callings, and until we have a law letting us know what act becomes an act belonging specially to a calling we cannot say that it belongs to that calling. I submit that there is no law in the world which gives the dentist the only right to, say, extract teeth, or the chemist or druggist to dispense or mix medicines. A layman can do these things—people can all do it. How can it be said, in the absence of any law, that this or that is an act specially belonging to the dentist or to the chemist and druggist?

The Lord Chancellor: But the laws of the Transvaal are different. It is laid down in Section 39 of the Ordin-

ance that anybody not registered who does an act belonging to the callings mentioned is liable to a fine. How can you possibly get out of it?

The Petitioner: A dentist does not only extract teeth.

The Lord Chancellor: But you extracted teeth, not being registered in the Transvaal, and the jury have found, and the higher Court support their decision, that in doing that you were guilty of an offence against the law. You did an act which belongs to the calling of the dentist. There does not seem any doubt about that, and you admit it. We cannot assume anything; we must accept the facts as they are, and we have no power to give leave to appeal to review or upset that finding.

The Petitioner: My contention is we take a man who dispenses medicines; he can do that without being registered. That selfsame act, and diagnosing and prescribing may be done by a licentiate or a doctor of medicine, an apothecary, a chemist, or druggist—they all do it.

Lord Fletcher Moulton: If you had registered as a licentiate of medicine, then you might have said that you would draw teeth or sell drugs because these acts were covered by your registration. But as it happened, you had no registration of any kind.

The Petitioner: My Lord, there is no law in the world to prevent a man doing these things.

Lord Fletcher Moulton: The Ordinance of the Transvaal is the law, and it says you must not do certain things without registration.

The Petitioner: I have not yet seen the law that prohibits these acts. I will prove this to you by a reference to the Encyclopædia Britannica,

The Lord Chancellor: But you must get back to the law of the Transvaal. You have stated your points very clearly, but we do not think they apply to the section under which the convictions arose. We are therefore unable to advise his Majesty to accord you special leave to appeal or to intervene in this case. We are not a Court of Appeal, and we cannot go into the points you mention; but what we do find is that you are prohibited by the Ordinance of the Transvaal from doing the acts for which you are not registered.

The Petitioner: There is no record of the trial to show the proof of my guilt. They found me guilty without a single atom of proof.

The Lord Chancellor: But you do not dispute yourself that you took out teeth and that you sold drugs.

Lord Fletcher Moulton: As the Lord Chancellor has pointed out to you, we are not a Court of Appeal, and there must be some gross injustice proved before we can do anything. The lower Courts have stated the points of law very carefully, and we take the view they take, so that we cannot see that there is anything to justify interference.

The Petitioner: Might I ask for your interpretation of the section? If this Court does not decide these points to which I have referred, then the whole country, the whole Empire, remains in a state of confusion.

The Lord Chancellor: All we can tell you is that the words of the second part of the section cover your case.

The Petitioner: My Lord, if it means that, it means that other systems of medicine must be wiped out of existence.

The Lord Chancellor: That is a matter about which you must go to the Legislature of the Transvaal. We cannot alter it.

The Petitioner: The question of medical practice was disposed of by the Privy Council more than two centuries ago in the case of apothecaries and physicians, and there have been decisions in other courts.

The Lord Chancellor: But we have no jurisdiction to apply these to this case. We only sit here to interpret the law in the particular case brought before us. As to your right to act as you did, we cannot entertain any doubt on the point. We have no jurisdiction to interfere with the penalties. At the same time this does appear a case in which there was a very heavy sentence or set of sentences. It is no part of our right, nor are we permitted to interfere with what the Court below has done, but this was a case in which the sentence appears to their Lordships to have been a very heavy one, having in view the character of the offence. It is possible that the Government of South Africa will give due and proper consideration to the question whether or not the sentence was excessive. That was the consideration of the learned Judges of the Court below, and we say that again. But we accompany the suggestion for mitigation by a statement of the fact that we have no right or title to interfere with the administration of any magistrate or any judge. You have put your points very clearly, and we are against you.

The Petitioner: Do I understand that the Privy Council has no jurisdiction whatever as far as miscarriage of justice in South Africa is concerned?

The Lord Chancellor: I do not think there has been any miscarriage of justice, having regard to the terms of the Ordinance, and I think the case does not come within our jurisdiction.

The Petitioner: Is it possible for me to bring a further action in this court?

The Lord Chancellor: You must not ask us these questions in this court. I will tell you so much—you cannot plead here.

The petition was accordingly dismissed.

British East Africa News.

(By the "C. & D." Correspondent.)

MEMBERS of the Pharmaceutical Society of British East Africa and Uganda have been occupied recently discussing and interviewing the authorities with reference to the new Agricultural Poisons Ordinance and the Ordinance for the prevention of the abuse of opium and similar narcotics. These Ordinances resemble those pertaining in other Colonies, and Uganda chemists are trying to assert their rights with regard to them. A general meeting of the Society was held at Mr. White's bungalow, Nairobi, on Friday, April 24. After dinner, Mr. E. W. Harper took the chair, and the meeting did not come to an end until well after midnight. The chief matters of interest were the two Ordinances mentioned, and Mr. Bull, one of the Pharmacy Board members, told what was being done by the Board, and gave a *résumé* of the interview the Society's deputation had with Dr. Owen Prichard in the absence of the P.M.O. Mr. White proposed that the Nairobi chemists should fall into line with other European traders in turn, and close at an earlier hour in the evening as well as on Saturday afternoon, and also make an arrangement about Sunday and holiday hours. After discussion, Messrs. Howse & McGeorge, who have always adopted the principle of early closing, were asked to draft a scheme to be approved of by the other members. Mr. W. M. Nicol and Mr. A. d'Mello were elected new members of the Society.

The medical men of Nairobi have followed the example of the chemists and formed a Medical Society.

It is to be regretted that Mr. B. A. Bull, who has managed the English pharmacy during the last two and a half years, is about to leave for England. Mr. Bull has interested himself to a great extent on behalf of pharmacy in the Protectorate, and future chemists in these parts will owe much to his energies. Mr. Bull, along with Mr. Howse, are the two nominees of the Government on the Pharmacy Board.

Mr. J. H. Davies, representative of Messrs. Burroughs Wellcome & Co., has been busy in British East Africa and Uganda, and made many friends; he is now on his way through Nyasaland; after this he proceeds to Mauritius, but expects to be back again on his return journey, as he has much still to do.

Mr. King, of Evans Sons Lescher & Webb, and Mr. J. C. Hewlett (C. J. Hewlett & Son) are expected in the country shortly.

Mr. Stobo has gone to Kampala to relieve at the branch of Messrs. Howse & McGeorge, and Mr. Howse has returned to Nairobi after a sojourn of one year in Uganda. The "Uganda Herald," referring to this, says:

"Others who will be greatly missed are Mr. and Mrs. Howse, who leave for Nairobi, as the extent of the business of Messrs. Howse & McGeorge requires Mr. Howse's presence there. During their stay here, Mr. and Mrs. Howse have made many friends, who will regret their departure, and their Wednesday *musicales* have been quite a feature, and given numbers the opportunity of spending a pleasant evening."

LEGAL REPORTS.

TRADE LAW.

Curious Trading.—In the City of London Court on May 25, before Sir John Paget, Bart., K.C., the case of Posse *v.* Engelmann was heard. Defendant, Jacob Engelmann, perfumer, 157 Balls Pond Road, London, N., said he could not pay the debt of 1*l.* 8*s.* 2*d.* which was due to the plaintiffs, L. Posse & Co., 42 Devonshire Chambers, Bishopsgate. He said he could not pay more than 5*s.* per month. Plaintiffs' representative said the defendant was a perfumer and hairdressers' sundriesman. He was doing a fine business, and could well afford to pay the debt. He was able to sell a ton of broken glass bottles last week. That showed he was doing a good trade, as they were used bottles. Defendant said he bought the bottles, and sold them very cheap. The Deputy-Judge: I expect you bought them very cheap and made a profit?—Defendant: No, I lost on them. The Deputy-Judge: What a funny trade—to go and buy broken bottles and sell them at a loss! Defendant: They cost me 15*s.*, and I sold them for 11*s.* The Deputy-Judge: It is the funniest trade I have ever come across. I do not believe this. Order 10*s.* a month.

Authority of Managers.—In the City of London Court on May 26, before Sir John Paget, Bart., K.C., an action was brought by Robert Meyer & Co., 23 St. Swithin's Lane, against Aktien-Gesellschaft für Korbaren Industrie & Hourdeaux Bergmann, 40 Jewin Street, to recover 42*l.* 15*s.* 3*d.* for combs, hair-brushes, etc., and other goods supplied. Mr. Gore-Brown, for the plaintiffs, stated that the defendant company's registered office was in Bavaria, with an office in London. The defence was that the goods were ordered by one Lavocat, and that he had no business to have pledged the credit of the defendants. Defendants said that they did not hold him out as their agent, and therefore they were not responsible for the goods now sued for. The question was whether the plaintiffs had reasonable grounds for believing that Lavocat was the defendants' agent, and whether they were justified in regarding Lavocat as having authority to bind defendants. Lavocat's name was filed under the Companies Act as the defendants' manager of the London office in 1913. Plaintiffs debited the goods to the company, and not to Lavocat. Defendants' case was that plaintiffs knew that the goods sued for were supplied to Lavocat, to whom the invoices were sent. They had tried to get the money out of Lavocat, and could not do so. The Deputy-Judge said that the plaintiffs seem to have been bamboozled all round. He was sorry for them, but he could not help them. Lavocat was only authorised to sell goods, not to buy them. Judgment for the defendants, with costs.

Weights and Measures Act.—At Preston on May 22, Joseph Wm. Walmsley, chemist and druggist, 142 New Hall Lane, Preston, was summoned for having a pair of beam scales 1½ dr. against the purchaser; also for having in his possession for use in trade a 2-lb. weight which was 4 oz. short and had been previously condemned, a 1-lb. weight which was 2½ dr. short, and two ¼-lb. weights which were each 1 dr. short. All these weights (Inspector Robinson said) had not been submitted for testing since January 1910, and the 2-lb. weight had upon it a "star" punch mark showing that it had been condemned at the Weights and Measures Office as not capable of adjustment, and therefore unfit for further use. It should have been destroyed by the owner. Defendant said the 2-lb. weight was only used as a paper-weight for holding down prescriptions waiting to be "priced," and was never put on the scales. Regarding the other weights, he could only say that through heavy pressure of business and sickness in his family he had failed to have them attended to. On the scales only about one-fifth of the goods sold were weighed, as the bulk of the business was dispensing, and many of the articles sold over the counter were in packets prepared by the makers. He was not aware the scales were unjust. In further explanation, an apprentice described how he had let the scales fall two weeks before, and when he put them together again he put some paper on one side to balance. Mr. Whittle having addressed the Bench for the defendant, the Magistrates imposed a fine of 20*s.*, and costs, in the scale case, and ordered defendant to pay the costs in the second case. The scales and weights were confiscated.

Paregoric Elixir without Opium.—As briefly reported in the *C. & D.*, May 23, p. 100, the case of Moon *v.* Archer came before the Bradford City Police Court on May 21. In it Thomas Archer, herbalist, 82 Oak Lane, Bradford, was summoned under the Merchandise Marks Act for selling as paregoric elixir a liquid to which a false trade description was thus applied. Mr. H. Beldon, who prosecuted on behalf of the Pharmaceutical Society, in the course of his opening, said that an agent of the Society asked the defendant for paregoric elixir, and was supplied with a liquid in a bottle, which bore the label "Paregoric Elixir, good for colds; dose one teaspoonful. Thomas Archer, Medical Herbalist, 82 Oak Lane." Upon analysis the liquid was found not to contain any opium. Therefore the Pharmaceutical Society, who had originally contemplated proceedings against an unqualified man for selling poisons, took action under the Merchandise Marks Act instead. Mr. Beldon stated that serious results had followed from people getting non-soporific stuff, and taking the real thing afterwards in the large doses that they had to take of the wrong thing. The defendant, who made no attempt at denial of the offence, pleaded ignorance. He said he had always thought that they could call almost anything an elixir, and the fact that he had not intended any deception was shown in the circumstance that he had kept the liquid prominently displayed in his shop labelled "Paregoric elixir without opium." He made it a rule to tell persons who asked for it that it contained no opium. He had had labels marked "Paregoric elixir without opium," but those had got wet, and the "Paregoric elixir" alone was a misprint which he had overlooked. The Chairman of the Bench (Mr. S. P. Unwin) said there was a great deal of looseness in the way these elixirs were sold, which was against the public interest, and this was not permissible and must not be done in Bradford. The defendant was fined 1*l.*, and 2*l.* costs, with the alternative of a month's imprisonment.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

"Monster" Trade-mark.

The "Monster" trade-mark of Sodastream, Ltd., was the subject of a motion which came before Mr. Justice Joyce on May 22, in the Chancery Division, in the case of Sodastream, Ltd., *v.* Knight.

Mr. Kerly, for the plaintiff company, said he was moving for an *ex parte* order to restrain the defendants from infringing a registered trade-mark and from passing-off. His clients were soda-water bottlers, of Cheltenham, and had a registered trade-mark, "Monster." The company not only sell what they made themselves, but also sell apparatus for bottling and for making soda-water. They entered into two agreements with the defendant, by which they let to him certain machinery. Four days ago they discovered the alleged infringement.

His Lordship declined to grant an injunction, but said he would give plaintiffs leave to serve the defendant with notice of motion for May 26, when it came up again on that date.

Mr. Knight (the defendant), who is a grocer carrying on business at Cheltenham, appeared in person.

Mr. Kerly said the plaintiffs are manufacturers of soda-water, ginger-beer, and similar things, and also of apparatus and syrups for making and preparing such goods. They are registered proprietors of a trade-mark consisting of the word "Monster," and by agreements of May 11, 1911, and February 10, 1913, the plaintiffs let to the defendant certain bottling-apparatus for aërating ginger-beer and other things, and they were now asking for an injunction to restrain alleged infringement of the trade-mark.

Mr. Knight (interposing) said he was perfectly willing to submit to an injunction, provided he was not "landed" in heavy costs.

Mr. Kerly: My clients will not forego their costs. In reply to the Judge, counsel said the allegation was that the defendant had been supplying aërated drinks in the plaintiffs' bottles bearing the word "Monster," which were not manufactured by the plaintiffs or from their syrups.

After further discussion Mr. Knight signed an undertaking not to continue doing this and asked if he could end the matter now by submitting to judgment in the action without costs or damages. Mr. Kerly said the plaintiffs were not willing to agree to that.

Pharmacy Acts (Ireland).

No. 23 Nassau Street, Dublin.

At the Southern Divisional Police Court, Dublin, on May 22, before Mr. Swifte, K.C., Chief Metropolitan

Police Magistrate, Mr. Patrick M. Nugent, 23 Nassau Street, Dublin, was charged with having (1) on April 2 kept open shop for dispensing or compounding medical prescriptions; (2) on April 3 kept open shop for retailing, dispensing, or compounding poisons; (3) with failing to furnish to the Registrar of the Pharmaceutical Society of Ireland a statement of the name and address of the *bona-fide* proprietor or proprietors of the shop 23 Nassau Street, the name of the duly qualified manager or assistant managing or conducting it, and the description of his qualification; and (4) with having on April 28 kept open shop for dispensing or compounding medical prescriptions. At the same time Mr. Joseph Ellis was charged with having on April 3, at the shop of Patrick M. Nugent, 23 Nassau Street, (1) sold laudanum, and (2) on April 28 compounded laudanum contrary to the formula of the British Pharmacopœia. Mr. Wm. C. Meeke, solicitor, prosecuted on behalf of the Society; and Mr. Christopher Friery, solicitor, appeared for the defence.

Mr. Friery asked his Worship for an adjournment for two weeks. He said the business at 23 Nassau Street had been formerly carried on by Mrs. Ray, who had a son who was a qualified assistant and was manager of the place. He sold the place to Mr. Nugent for a considerable sum—450*l.*, in fact. Mr. Nugent's life-savings went into it. The business did not seem to have prospered, because in the month of March Mr. Nugent was obliged to seek the protection of the Bankruptcy Court, and the estate was vested in the Official Assignee. Under the direction of the Court, the trade was being permitted to be carried on. They were trying to sell it as a going concern. Under the deed under which Mr. Nugent purchased, Mr. Ray, who was a fully qualified assistant,* was to act as manager and compound these medicines, and he visited the place daily for the purpose of generally superintending and doing these things. All the title-deeds in connection with the premises were in the possession of the Official Assignee. It would be necessary for him (Mr. Friery) to apply to the Judge for liberty to get these deeds, on the usual undertaking, to inspect them, and no Judge would sit before the following Friday. He (Mr. Friery) had only been instructed that morning. Under the deed Mr. Ray bound himself to act as manager and to do the very acts which the Pharmaceutical Society complained of; and they would be in a position to prove that he had performed these acts. He wanted to bring Mr. Ray there for that purpose, and he could not do that under two weeks. In the meantime, so that no offence would be committed against the Society, they would give an undertaking that no medicines of any kind would be compounded by any person except by a fully qualified man—Mr. Ray. He thought that would meet the wishes of the Society.

Mr. Meeke: Certainly not.

Mr. Friery said he would not be in a position to go on that day.

Mr. Meeke said there was every objection to adjourning the summonses. Even if Mr. Friery was able to prove what he had said up to the last word, it would be no defence whatever to any one of the summonses. The law was such that no unqualified person could keep open shop for the sale of poisons or for the compounding of prescriptions even if he had a qualified assistant.

Mr. Friery: Then every house in Dublin is offending.

Mr. Meeke said that on one of the occasions about which the Society complained their inspector asked for laudanum, and he was given a substance which, it was found on analysis, did not contain any morphia. This was a question purely and simply in the public interest, and in the public interest they objected to a postponement. These people were keeping open shop for the sale of medicines and for the sale of poisons——

Mr. Friery: I object. This is all done for a purpose because the Press are here. I ask your Worship to put a stop to it. On a motion for adjournment it is very unusual to go into the merits.

Mr. Meeke: The law as regards a corporation is quite different from the law as regards an individual. An individual is caught by the Pharmacy Acts. It was decided in an English case which was followed by the Courts here that a corporation is outside the purview of the Pharmacy Acts, but that the corporation must do its work through a qualified man; the corporation is not affected as regards keeping open shop by the Pharmacy Acts.

Mr. Swifte said he did not see any reason why the application for postponement should not be granted. Mr. Friery wanted to show that the arrangement had been made under the sanction of the Bankruptcy Court.

Mr. Meeke said that personally he would be delighted to oblige his friend Mr. Friery, but here they had the fact that this medicine which was sold was not what was asked for. It contained no morphia and nothing corresponding to laudanum. There was nothing except the colour. They were asked to allow this business to be carried on in an illegal manner.

Mr. Friery: It should be under the Merchandise Marks Act that defendant should be prosecuted. If laudanum is asked for and something else supplied the summonses are all wrong. Mr. Ray was appointed by the deed, and he has carried out the deed. He is bound under the terms of the deed, and even if we are to sell it as a going concern he will be obliged to act. The object of this is to get the thing into the Press; it is for the purpose of destroying the sale of our premises and injuring the creditors.

Mr. Meeke: Even if my friend makes his case it is no answer in law. The Official Assignee himself has no right to carry on this business. The Judge cannot override the law by allowing the Official Assignee to carry on the business. If the Judge made such an order we should be obliged to bring the Official Assignee before your Worship.

Mr. Swifte adjourned the hearing of the summonses for a fortnight.

Mr. Friery: In the meantime no medicines will be compounded save by a duly qualified man.

Mr. Meeke: I do not care about that undertaking. The probability is I will take proceedings in the meantime about this shop being kept open.

* John Armstedt Ray, 23 Nassau Street, Dublin, is a pharmaceutical chemist. The surname Ray does not occur in the current register of assistants to pharmaceutical chemists.—Editor *C. & D.*

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

Hygienic Shaving-brush Co., Ltd. (P.C.).—Capital 1,000*l.* The first directors are T. D. Wainwright and M. Reinstein. R.O., 18 Denmark Street, London, W.C.

Burlington Laboratory, Ltd. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To take over the business of metallurgists, assayers, refiners, and manufacturers of medical, chemical, and dental specialities carried on by Brinkop & Co. as the "Burlington Laboratory." R.O., 35 Burlington Street, Chorlton-on-Medlock, Manchester.

Richmonds, Cash Chemists, Ltd. (P.C.).—Capital 300*l.*, in 1*l.* shares. Objects: To carry on the business of pharmacy and drug-store proprietors, chemists, opticians, dealers in photographic requisites, etc. The first directors are A. E. Richmond (permanent), Mrs. F. A. D. Richmond, and N. Colbeck. R.O., 67 Chetwynd Road, London, N.W.

Association of Manufacturing Chemists, Ltd. (P.C.).—Capital 100*l.*, in 1*l.* shares. Objects: To protect the members, customers, and connections of the company against persons, firms, and companies considered unworthy of mercantile credit or otherwise undesirable, to procure and communicate to members status information, to collect debts, etc. Solicitors: J. & M. Solomon, 58 Finsbury Pavement, London, E.C.

St. Jacobs Oil (England), Ltd. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To carry on in England and elsewhere (except North or South America) the business of chemists, druggists, drysalters, oil and colour men, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations and articles, etc. The first directors are T. H. Vernon and W. D. Rowles. Solicitors, Vernon Stephen & Co., 80 Coleman Street, London, E.C.

Company News.

M.P.S. Syndicate, Ltd.—A notice has been filed of the appointment of E. F. Brevetor, 73 Strand, London, W.C., as receiver.

Frame Food Co., Ltd.—Claims to be sent in to the liquidator (Mr. A. A. Yeatman, 2 Coleman Street, London, E.C.) on or before June 13.

Treforest Cash Chemists Co., Ltd.—Report of liquidator (Mr. J. W. Kinsman) at meeting to be held at 2 and 3 Taff Street, Pontypridd, on June 26 at 11 a.m.

Phillip Harris & Co., Ltd.—The first annual meeting of the shareholders of this company was held at Birmingham on May 27. Mr. H. B. Lowe (chairman and managing director) presided. Out of the year's net profit (6,028*l.*) it was proposed to pay a dividend of 6 per cent., less tax, on the ordinary shares, calculated from date of allotment, and to carry forward to next year 575*l.*

Patrice Toilet Specialities, Ltd., 16 Brook Street, London, W.—Under a compulsory winding-up order made against this company in February under a creditors' petition, accounts have been lodged showing liabilities 2,998*l.* 6*s.*, assets 4*l.*, and a deficiency of 3.994*l.* 6*s.* as regards contributories. Mr. H. E. Burgess (Official Receiver) has now issued a report, embodying the particulars published in the *C. & D.*, April 25, p. 134.

Virol, Ltd.—The directors report that the sales in the year up to March 31, 1913, showed a considerable advance on those of the previous year, and that the gross profit amounted to 76,260*l.*, against 61,957*l.* for 1912. The net profit, including the amount brought forward, is 29,365*l.*, as compared with 26,438*l.* last year. The directors recommend a dividend at the rate of 12½ per cent. on the ordinary shares, placing 10,000*l.* to reserve fund, and carrying forward 10,615*l.*

BANKRUPTCY REPORTS.

Re George Harrold Howarth, Smallbridge, carrying on business in Hunter's Lane as a Manufacturing Veterinary Chemist under the style of Howarth & Co.—The first meeting of the creditors was held at the Town Hall, Rochdale, on May 27. The Official Receiver (Mr. Hesketh Booth, of Oldham) presided. A summary of the debtor's statement of affairs showed that the gross liabilities amounted to 240*l.* 29*s.* 1*d.*, owing to twenty-eight unsecured creditors, all of which is expected to rank for dividend. The debtor estimated his assets at 96*l.* 12*s.* 1*d.*, including 50*l.* for stock-in-trade, fixtures, etc., 20*l.* for household furniture, and 36*l.* 5*s.* 1*d.* for eighty book-debts. The deficiency was 144*l.* 7*s.* The causes of failure alleged by the debtor are "taking over the insolvent estate of my late father and lack of capital." The debtor said he was in communication with a firm of chemists in regard to the sale of his business and of certain recipes for the manufacture of drugs. After a few questions from the Official Receiver, the meeting concluded.

Re Marcus Fedderman, St. James's Buildings, 75 Oxford Street, Manchester, Chemist and Druggist.—The public examination of this debtor took place at the Manchester Bankruptcy Court on May 22. The liabilities expected to rank amounted to 1,952*l.* 3*s.* 11*d.*, and the deficiency was 1.579*l.* 16*s.* 4*d.* The debtor attributed his failure to insufficient capital, heavy interest on borrowed money, loss of trade discounts, law costs of writs, summonses, and executions, and heavy business expenses, especially rent and rates (see *C. & D.*, April 4, p. 43). The debtor, in reply to the Official Receiver (Mr. J. G. Gibson), said he was twenty-six years of age, and commenced business in August 1912 in partnership with a cousin, Marcus Goldberg, who found all the capital of 500*l.* The firm traded in the debtor's name because Mr. Goldberg was not a qualified chemist. The latter died three weeks after the business was started, and he (the debtor) gave bills for 500*l.* extending over three years to the deceased's father on the verbal understanding that the bills should be renewed if necessary, and that they would not be discounted in the meantime. This provision had not in strictness been adhered to, and he had been sued by an indorsee for the value. In June 1912 he acquired premises at 81 Oxford Street, Manchester, which he opened as a hairdresser's saloon under the style of the St. James's Toilet Saloon. Lack of capital prevented him from carrying on this business, and he assigned it last October to Mr. Samuel Meadowcroft, for whom he had since acted as manager. The examination was closed.

BIRTHS.

Authenticated notices are inserted without charge.

Crawford.—At 4 Hamilton Terrace East, Partick, Glasgow, on May 27, the wife of George W. Crawford (The Pharmacy, Singapore), of a daughter.

Gaddes.—At Middlesbrough, on May 26, the wife of Andrew C. Gaddes, chemist and druggist, of a son.

Liddell.—At 11 Eagle Parade, Buxton, Derbyshire, on May 24, the wife of J. Liddell, pharmacist, of a son.

MARRIAGE.

Authenticated notices are inserted without charge.

Henderson—Chatten.—At St. Andrew's Church, Norwich, on May 28, Louis B. Henderson, pharmacist (Messrs. Eardley & Furnival, Sheffield), to Edith, youngest daughter of Mr. James Chatten, of Norwich.

DEATHS.

Authenticated notices are inserted without charge.

Bloor.—At the Castle Pharmacy, Hawarden, Flint, on May 15, Mr. Richard Hardy Bloor, chemist and druggist, aged forty-five. Mr. Bloor qualified in 1899. He leaves a widow and an infant daughter.

Bonnar.—At High Street, Ballymena, on May 23, Mr. Samuel Bonnar, of Bonnar & Henderson, Ltd., wholesale druggists. Mr. Bonnar, who was a member of the Chemists and Druggists' Society of Ireland, began his career with the late James Beatty, druggist, Ballymena, and subsequently, with two fellow assistants, James Henderson and J. A. Woodside, set up the firm of Bonnar, Henderson & Woodside. Mr. Woodside afterwards opened a pharmacy of his own, Messrs. Bonnar & Henderson continuing the business, and when Mr. Henderson died Mr. Bonnar carried it on. Deceased was widely known all over the North of Ireland. The funeral took place on May 25, when the Chemists and Druggists' Society of Ireland was represented by Mr. W. J. Rankin, Belfast. Other members of the trade present were Messrs. J. A. Woodside, Ph.C., S. J. Moore, Ph.C., and Huston Lancashire, Ph.C.

Court.—At 36 Little Clarendon Street, Oxford, on May 16, Mary Ann, wife of George Frederick Court, aged sixty-eight.

Curtis.—At 2 Litchdon Terrace, Barnstaple, on May 17, Mr. William Curtis, J.P., Ph.C., aged seventy-three. Mr. Curtis was a native of the town, and served his apprenticeship there with the late Mr. J. W. Tatham, of Joy Street. After gaining experience at Cheltenham he returned to Barnstaple and established the business at the corner of the Square, now conducted by Mr. G. M. Pitt. He was the founder of the Glee and Madrigal Society, and for twenty years acted as organist and choirmaster at Holy Trinity Church.

Dundas.—At 15 Polwarth Place, Edinburgh, on May 23, Jean Elder, daughter of Mr. Robert Elder Dundas, chemist and druggist.

Gascoigne.—At Darlington, on May 19, Mr. Charles Gascoigne, chemist and druggist, aged seventy-five. Mr. Gascoigne was in business prior to August 1, 1868.

Laking.—At 18 Cavendish Square, London, W., on May 21, Sir Francis Henry Laking, Bart., G.C.V.O., K.C.B., M.R.C.P., L.S.A., M.D. (Heidelberg), Surgeon-Apothecary to the King, and Apothecary in Ordinary to the Royal Household, aged sixty-seven. Sir Francis, who was physician to three British Sovereigns, gained the confidence of the late Queen Victoria as a partner to Mr. Du Pasquier, Apothecary to the Royal Household, whom he succeeded on his death.

Michie.—At 2 Alma Road, Monkstown, co. Dublin, on May 19, Sara Elizabeth, wife of Mr. James Michie, Ph.C., proprietor of the Blackrock Pharmacy, Blackrock.

Pye-Smith.—At 26 Hyde Park Square, London, W., after a long illness, Mr. Philip Henry Pye-Smith, M.D., F.R.S., aged seventy-four. Dr. Pye-Smith was a consulting physician of Guy's Hospital and joint author of Fagge's "Text-book of Medicine."

Swan.—At Overhill, Warlingham, Surrey, on May 27, Sir Joseph Wilson Swan, F.R.S., chemist and druggist, aged eighty-five. This distinguished scientist spent forty years of his life in pharmacy, and it was during

Sir Joseph Wilson Swan, F.R.S.

that time that his inventions of the photographic dry-plate and the carbon-filament electric-lighting lamp (his principal inventions) were perfected. He was born in Sunderland on October 25, 1828, and was educated in the town under Dr. John Wood, a Scottish doctor of divinity, who appears to have had a taste for science, and encouraged the boy Swan in chemistry before he had entered his teens, so that he prepared hydrogen and did other experiments (now considered to be simple and elementary, but then difficult) before he was in 1842, at the age of fourteen, apprenticed to a local firm of chemists. His devotion to science was observed by an assistant in the shop, who gave him every encouragement, and such lectures as there were to be had in those days he attended, especially those of W. E. Staite, from whom he learnt of the luminosity induced by electricity when passed through a metallic filament or thin wire. Before his apprenticeship was finished his masters died, and he went as an improver to Mr. John Mawson, Newcastle-on-Tyne, who, perceiving the lad's scientific bent, encouraged him in every way, getting him apparatus, and this was the beginning of the business in philosophical and scientific apparatus and instruments which was built up under Swan's care. He had also from the first been interested in photogenic methods, and when Schönbein's process for making guncotton was published he began to experiment with it, and ultimately in 1851 he perfected a process for producing nitro-cellulose specially for making photographic collodion. This started the Mawson photographic business, which is thus honourably associated with the introduction of the wet and dry processes of photography. Besides, Swan discovered the carbon or autotype process of photography. In 1860 he became a partner with Mr. John Mawson, who died in 1867, and from that time until Mr. George Weddell became his partner the business grew in several directions under Swan's guidance, one branch being devoted to photography and prints and another to scientific apparatus, the pharmacy remaining and developing; it is now merged with the business of his old friend, Barnard Proctor, as Mawson-Proctor, Ltd., Mr. Weddell and Mr. T. M. Clague having so arranged it. From the time that Swan heard Staite lecture during his apprenticeship he continued to experiment on electric lighting. Ultimately in 1879 he produced a filament of carbon sufficiently slender and tough to glow under the influence of an electric current in a vacuum and without breaking. He was the first to do this, but Edison was not long after, and the simultaneous introduction of two rival lamps led to a patent lawsuit, and, afterwards, blending of the two commercial interests in the Ediswan Co., Ltd. Towards the end of last century Swan came to reside in London, and he had a fine experimental laboratory (chemical and physical) in his house at Holland Park; there he continued investigation, which had never ceased since he was a druggist's apprentice in Sunderland, and which had been so fruitful not only of inventions, but of contributions to science. His name was known all over the world, and twenty years ago he began a sort of second life as a leader in science, intimately associated with the learned societies of the day. Besides being president of electrical societies and institutions, he became President of the Society of Chemical Industry in 1901, and in the following year was awarded its gold medal. His interest in pharmacy reawakened at this time, and in 1903 he delivered the inaugural sessional address at the opening of the School of Pharmacy, this being chiefly reflections on the condition of British pharmacy when he was an apprentice. He had by this time been elected an honorary member of the Pharmaceutical Society. In the following year (1904) he was knighted, elected a Fellow of the Royal Society, and also received the Hughes medal for his invention of the electric incandescent lamp. Towards the end of the year he presided at the dinner of the Metropolitan College of Pharmacy and delivered a speech on qualification in pharmacy. During the later years of Sir Joseph's life he received many academic honours, including M.A. and D.Sc. from the Durham University, and he was made an honorary member of learned societies abroad. Newcastle-on-Tyne recently decided to bestow upon him the freedom of that city, in which he had spent the greater part of his life, and with which his name is so indissolubly associated. Of his contemporaries there none of the earliest are left. John Pattinson and Barnard Proctor, as personal friends and brothers in experiment, were the two who helped him in his earliest work on photography and electro-chemistry. Sir Thomas Barclay, of Birmingham, was a junior to him at Mawson's, and there are few others remaining who can go back to those early days in pharmacy. Sir Joseph's life and achievements are an example of the possibilities of our calling as a training ground for science. The difficulties with which he had to contend in his youth were just those with which many young men in pharmacy are at the present time contending: drudgery, hard work that was sometimes menial, long hours—everything, in fact, to divert the attention from study and science, as well as the necessity of making one's own living. Sir Joseph Swan felt these things as acutely as anybody, but they were a stimulus to effort, and he was rewarded with success, including a happy and long life. He was a man of exceptionally fine presence, tall, and crowned with beautiful silver hair. He was genial and remarkably interesting in conversation. He was twice married, and had four daughters and four sons by his second marriage. Of the sons, one is associated with one of the largest engineering ventures on the Tyne, and another, Mr. Cameron Swan, has specialised in the photographic and picture-reproduction businesses in London which his father inaugurated. The portrait of Sir Joseph which we reproduce was taken by his son.

Tweedie.—At Bo'ness, on May 21, Agnes, wife of Mr. Alexander Tweedie, chemist and druggist.

Burette-graduations.—Goebel ("Apoth. Ztg.") suggests that the graduations on burettes and pipettes should follow a spiral course round the vessel, or else change direction at a sharp angle at each major division of the scale. This gives more space for subdivisions.

TRADE NOTES.

Messrs. Shirley Bros., Ltd., Rockingham Street, London, S.E., have restored their goods to the P.A.T.A. list, from which they had been removed accidentally.

Euresol Hair-tonic.—We are not surprised that this preparation, like Euresol itself, has caught on, for it is a good thing—one of the best for dandruff, in fact. See the advertisement in this issue.

Messrs. Burkett, Sharp & Co. (The London Drug Co.), 10 and 11 Mincing Lane, London, E.C., have been appointed agents for Mr. Oscar Larsen, of Aalesund, manufacturer of finest Norwegian cod-liver oil.

Stae-on Eyeglasses.—The Nitsche and Gunther Optical Co., Ltd., 66 Hatton Garden, London, E.C., illustrate in their advertisement in this issue the special show-stands and snap-case which have been devised for the "Stae-on" eyeglass.

"Nufig" Laxatives are an attractive novelty in aperient confectionery which is advertised in this issue by Messrs. Blyton, Astley & Co., Lower Broughton, Manchester. An attractive showcard has been produced for display in the window or pharmacy.

Dia-paraffin is a powder-form of petroleum, and in this respect unique. It is retailed at 1*s.* and 2*s.* 6*d.*, these prices being protected under the P.A.T.A. scheme. Dia-paraffin is one of the products of the Saccharin Corporation, Ltd., 36 and 37 Queen Street, London, E.C.

Printing.—Messrs. Thomas Waide & Sons, Kirkstall Road, Leeds, publish in their advertisement in this issue a forcible claim for the superiority of smart and modern printing for chemists' advertising. Most people will agree that printing that is merely cheap is unprofitable as a business promoter.

Poudre Compacte.—Messrs. Henry C. Quelch & Co., 4 Ludgate Square, London, E.C., supply Bourjois' solid face-powder in seven tints—viz., rose, naturelle, rachel, blanche, rosette brun, ocree, and mauve. It is put up in neat little boxes, with puff, at 6*s.* per doz., and on gross lots the retailer's own name is printed on the box.

No-Germo Agents.—Lady Decies' discovery of a remedy for colds, hay-fever, influenza, etc., which is being sold under the name of No-Germo, is being well advertised. A London evening paper this week contained a list of the chemists who are agents in London for the remedy, this advertisement being reproduced in this week's issue of The Chemist and Druggist.

Lecigen is the name which Messrs. Evans Sons Lescher & Webb, Ltd., Liverpool and London, have given to a new nerve-food which they have introduced. It retails on P.A.T.A. terms in packages at 1*s.*, 1*s.* 9*d.*, 3*s.*, and 5*s.*, and is being prominently introduced to the notice of the public. The company will supply chemists on application with showcards and other matters that will identify them with the advertising. We understand that the company have ready for distribution the "analytical notes" of the work done in their laboratories last year.

Week-end Toilet-cases.—Messrs. D. & W. Gibbs, Ltd., have devised a scheme for distributing free to the public, through chemists, for a limited period, week-end toilet-cases to those who collect and tender twelve coupons, one of which is contained in each packet of the following specialities of the company: Pot-pourri soap, cold-cream soap, shaving-soap, dentifrice, complexion-cream, and toilet-powder. The toilet-cases contain dentifrice, toilet-soap, talcum-powder, and shaving-soap (for gentlemen) or complexion-cream (for ladies).

Goldona Paper.—Messrs. John J. Griffin & Sons, Ltd., Kingsway, London, W.C., send us a sample of a new variety of self-toning paper—Brown Label Goldona. The paper gives very pleasing warm brown and sepia tones, and after printing (a little deeper than is required in the finished print) all that is needed is fixation in 10-per-cent. solution of sodium hyposulphite, washing, and drying. The two varieties of surface in which the paper is issued are cream antique and white matt. This is a good paper to introduce to customers, as it possesses several good points which amateur photographers can appreciate, and is, in addition, a paper of the highest grade.

Webster's Ink-powders.—There is a possibility of excellent new business for chemists and druggists in the ink-powders manufactured by Messrs. T. Webster, Liverpool. The one that we have tried is Webster's Diamine blue-black writing-ink powder, a sixpenny tin of which makes a quart (26 oz.) of fluid that looks and writes brilliant blue, but gradually turns jet black. The ink produced is perfectly fluid. We find it to be well suited for our fountain-pen, and as the sixpenny tin makes as much ink as one generally pays 2*s.* for, there is, as we have said, a good opportunity for retail chemists doing well with the ink-powder. A pint flask of the ink made with the powder is an attractive exhibit along with a few tins of the powder, which, by the way, measure 2 in. high by 1¼ in. in diameter. The powders are now being used in railway and Government offices, and the ink is made by the simple addition of tap-water.

"Prana" Sparklets.—Aerators, Ltd., Craig's Court House, Charing Cross, London, S.W., have issued a new showcard in connection with "Prana" sparklets, which is the high-water mark in showcards. We reproduce it here. The original is 19 in. by 14 in., and in colours.

The young lady is wearing an orange-coloured jacket, and is reclining against a blue cushion. The showcard is one which can be exhibited in high-class pharmacies, and where shown it should lead to increased sales of sparklets.

Schimmel's Report.—Messrs. Schimmel & Co., Leipzig, London, and New York, have issued from their London office in Crutched Friars, E.C., the English edition of their "Semi-Annual Report on Essential Oils, Synthetic Perfumes, etc.," for April 1914. The report extends to 148 pages, and has a frontispiece giving a general view of the works of the firm and employés' dwellings, with rose-fields in the foreground, photographed from the Zeppelin airship "Sachsen." Another engraving (in colours) shows the gathering of the pollen of golden rod for immunising horses against hay-fever. As usual, the Report contains much interesting and valuable information regarding recent research-work on essential oils and allied products, besides a series of commercial notes and market reports on the essential-oil industry. Special mention may be made of the monographs (occupying over eight pages) dealing with the Sicilian and Calabrian oils of bergamot, lemon, and orange.

A Beautiful Picture has been produced by Messrs. Wright, Layman & Umney, Ltd., Southwark, London, S.E., in connection with Wright's Coal-tar Soap Window-display Competition. The original of the picture is Mr. Sheridan Knowles' "Oranges and Lemons," of which a half-page monochrome reproduction is given in the company's advertisement this week, reference to which on the part of our readers saves us describing the subject. The reproduction is done by a modern process in the original colours, so that when framed and placed on the wall it is indistinguishable in colour and light and shade from the artist's original. It measures 33 in. by 27 in. The company are presenting a copy of this fine picture free to every user of the soap who sends them twenty-four wrappers from the 4*d*. cakes. Beginning on Tuesday, June 1, the company will send a copy of the picture to the first hundred retailers who arrange for window-displays. It will make an attractive and novel addition to the window, and after selling the soap it may be added to the retailer's art collection. See the advertisement for further particulars.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. J. B. Braid, pharmacist, is shortly opening a business at 13 The Parade, Exmouth.

Mr. E. J. Wilson has purchased the business of Mr. H. W. Bryan, pharmacist, Portishead, Som.

Mr. C. J. Reid has purchased the business of Messrs. D. Lewis & Son, 30 High Street, Eton.

Taylor's Drug Co., Ltd., have purchased the business of Mr. F. G. Collins, 24 Manchester Road, Nelson.

Mr. Geo. Wise, chemist and druggist, has taken the business of Mr. G. R. Bray, pharmacist, at Bude, Cornwall.

Papier Poudré, Ltd., have removed to 20 Baker Street, Portman Square, London, W., the premises having been reconstructed for their increasing business.

The International Bottle Co. have removed to 48 Fore Street, London, E.C. Their 'phone number is London Wall, 4916, and telegraphic address "Autrefois London."

Mr. C. F. Gosney, pharmacist, of Seaton, has re-purchased the business of Mr. G. Wise, chemist and druggist, 11 Marine Place, Seaton, which he had previously carried on.

Mr. F. Falkingbridge, chemist and druggist, Baxtergate, Whitby, has sold his business to Mr. C. Tindale, pharmacist, a nephew of the late Mr. John Stevenson, the founder of the business.

Boots, Ltd., have purchased the Aintree shop of Messrs. Allan Bros., 45 Walton Vale, Aintree, and Breck Road, Liverpool. Their present branch at Aintree is to be closed down and the business removed to the newly purchased premises.

Mr. J. F. Brown, pharmaceutical chemist, 1 Cannon Street, Dover, is shortly retiring, after carrying on business in the town for forty-three years. Mr. Brown has been a prominent member of the local Chemists' Association, and is highly respected by the townsmen generally. The premises have been let for a different class of trade.

Mr. W. Maskew, Ph.C., who recently disposed of his pharmaceutical and optical business at Clacton-on-Sea, which he had carried on for fourteen years, has taken premises opposite the Town Hall, where he is opening a shop for the sale of antique furniture and works of art. Mr. Maskew has a large collection of old china, mortars, rare books, and autograph letters, some of which have been the subject of illustrated articles in The Chemist and Druggist.

Adulterated Santonin.—In a report from the Brisbane agent of Mr. E. Merck it is stated that adulterated santonin is being sold there, and that a retail chemist, feeling rather doubtful concerning the quality of a sample, had it analysed, and the analyst found that the sample did not contain even a trace of santonin.

WESTMINSTER WISDOM.

The Week in Parliament.

Irish Home Rule.

The Government of Ireland Bill was read a third time in the House of Commons on Monday afternoon, and was then taken to the House of Lords, where it passed the first-reading stage. Both Houses then adjourned.

The Supply of Radium.

In the House of Commons on June 9 Mr. Harry Lawson, M.P., will ask Sir E. Grey whether any steps have been taken or are proposed to be taken by foreign Governments to limit or control the export of radium, with the object of reserving the home supplies in the first instance for the satisfaction of the home demand for radium in use in the treatment of disease.

Reduction of Foreign Postage.

The Postmaster-General announced on Monday that he is not aware of any agreement among the majority of nations entitled to vote at the approaching Congress of the Postal Union for the reduction of international postage to 1½*d*. Various proposals for reduction have been made, but he is not in a position to forecast the result of the Congress.

Chemists and Sunday Duty.

Under the Weekly Rest-day Bill, which was debated in the House of Commons on May 22, and thrown out, the following were among the occupations which may be carried on, either continuously or during limited hours, on Sundays:

The sale or delivery of the following commodities—namely:

Drugs, medicines, surgical instruments and appliances, and ice, for medical purposes, for the immediate relief of sickness or suffering.

The Panama-Pacific Exposition.

The Government have decided to adhere to their previous intention not to participate officially in the forthcoming Panama-Pacific Exposition. Mr. Asquith, in making this announcement on Monday, said the Board of Trade was satisfied that there was no widespread desire on the part of British manufacturers and traders to exhibit. It is suggested (writes our Parliamentary Correspondent) that possibly steps may yet be taken to ask the Government to appoint an honorary Commission to proceed to San Francisco, as has been done on previous occasions.

Preservatives in Cream.

The President of the Local Government Board (Mr. Herbert Samuel) has informed Colonel Ivor Philipps that he has decided to nominate a small expert Committee to investigate afresh the question of the effect upon health of the addition of preservatives to cream. Pending the completion of this investigation, which should not be prolonged, he expressed the opinion that it is inadvisable that local authorities should institute proceedings, except in cases where the amount of boric acid in the cream exceeds the amount declared on the label, or where the amount so declared is clearly excessive.

Inspection of Ships' Medicine-chests.

In the House of Commons on May 25, Major Archer-Shee asked the President of the Board of Trade what provision is made for the inspection of ships' medicine-chests at those ports in the United Kingdom where the Board of Trade have no sanitary surveyors.—Mr. Burns replied that sanitary surveyors are stationed at Liverpool, London, Glasgow, and Queenstown, and they inspect medicine-chests on vessels, hold inquiries from time to time into outbreaks of disease on board ship, and generally advise the Board on medical questions affecting ships. At ports where sanitary surveyors are not stationed the inspection of ships' medicine-chests is undertaken by nautical surveyors.

Dentistry in the Public Services.

Mr. Tennant (Under-Secretary for War), in a written reply to Mr. Astor, states that dental treatment is provided for soldiers serving in the Regular Forces, and that such treatment is carried out by qualified civilian dental surgeons. The general rule as regards the provision of artificial teeth is that soldiers may be provided with them at the public expense in the case of injury received on duty otherwise than through their own fault or in cases of wounds, injury, or disease directly attributable to active service. They are also provided in certain cases where a soldier otherwise efficient would, if not provided with artificial teeth, be discharged as an invalid. For the cost of treatment a sum of 5,000*l.* a year is provided, but the expenditure on dentures is not recorded separately from that on other medical appliances and stores.

The President of the Board of Education has informed Mr. Astor that it is the practice of the Board to require that a dentist be appointed to carry out the dental treatment of schoolchildren under a scheme of treatment sanctioned by the Board, and whole-time dentists have been appointed by the local education authorities for twenty-four areas. The arrangement usually adopted is the payment of a fixed sum for attendance at the clinics on one or more half-days per week.

The Parliamentary Secretary to the Admiralty has informed him that dental treatment is provided for sailors in the Royal Navy by twenty-three qualified dental surgeons who give their whole time to the work. Artificial substitutes in place of teeth are provided on similar conditions to the Army, and the cost of dental treatment and artificial substitutes is approximately 10,000*l.* per annum.

The Question of Chemists' Accounts.

When the House of Commons reassembles Mr. Godfrey Locker-Lampson, M.P., will address a number of questions on the subject of chemists' accounts to the representative of the Insurance Commissioners in the House of Commons. The hon. member will ask five questions about discounting of panel chemists' accounts, which are briefly as follows:

Proportion of Insurance Committees which have found chemists' accounts increased in first quarter of 1914 compared with the first quarter of 1913.

West Hartlepool panel chemists have been paid only 70 per cent. of their accounts for the first quarter of 1914. How many more districts are in the same condition or worse?

The deficiency in Lancashire is so great that the Pharmaceutical Society called a meeting about it. Any ministerial announcement about it?

Scottish chemists have threatened to go off the panel, as they are anxious about payment in full. Any representations to that effect?

What proportion of the first quarter's accounts of 1914 have been paid less than 90 per cent.?

WILLS PROVEN.

Mr. George Boyce, Ph.C., Chertsey, who died on March 18, left estate of the gross value of 751*l.* 18*s.* 4*d.*, of which 689*l.* 3*s.* 9*d.* is net personalty.

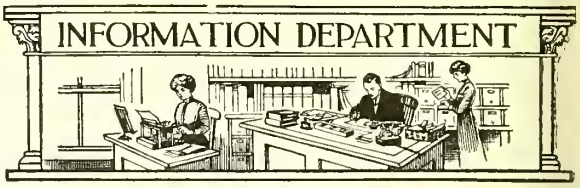
Mr. Horatio Alfred King, Ph.C., 38 Exchange Street, Norwich, who died on March 23, left estate valued at 1,857*l.* 7*s.* gross, with net personalty 1,636*l.* 3*s.* 10*d.*

Mr. Thomas Stokoe, chemist, Market Hill, Clare, who died on March 29, left estate of the gross value of 998*l.* 15*s.* 2*d.*, of which 392*l.* 5*s.* 6*d.* is net personalty.

Mr. Robert Cook, Ph.C., Millfield, Bargate, Great Grimsby, who died on February 14, left estate of the gross value of 29,428*l.* 16*s.*, of which the net personalty has been sworn at 21,186*l.* 18*s.* 7*d.*

Mr. Arthur Ferdinand Pickford, chemist and druggist, Highfield, Copperkins Lane, Chesham, who died on March 22, left estate valued at 4,260*l.* 9*s.* 8*d.* gross, with net personalty 3,841*l.* 4*s.* 11*d.*

Mr. Robert Clay Sudlow, 52 Sinclair Road, West Kensington, London, W., who died on February 17, left estate of the gross value of 4,850*l.* 11*s.* 3*d.*, of which 4,708*l.* 8*s.* 8*d.* is net personalty. Probate of his will has been granted to Mr. J. C. Smith, 13 Cumberland Park, Acton, W., and Mr. G. Strong, 15 Warrior Square, St. Leonards-on-Sea.



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

234/59. "Velvet" corks: English cutters.
235/3. Dr. White's electric hair-brush.
235/4. "Solex" battery.
235/6. "Laverain" tablets.
235/5. Ash's corn-rings.
235/2. "Victor" vacuum flask.
233/42. "Kensum" tooth-brushes.
233/15. Eucalyptus dental-cream.
233/150. "Cutia" (or "Cobra") ointment.
233/151. "Mocassin Oil."
233/152. "Selama Water."
233/153. Hardeman's beetle-powder.
233/70. "Zoaglion" gape-powder.
233/701. "Creme d'Ore."
233/702. Hilderbrand's violet cachous.
233/23. "Sovereign Pills."
234/73. Tooth - brushes marked "Hygienique," with cross in circle on a pale-green transparent handle.
235/12. "Menthola" or "Mentholia."
237/9. Nebulana compound.
237/10. Johnson's shaving-cream.
237/55. Pasteurised grape-juice of Istria (Gerveroux).
237/74. Surgical dressings marked "Azio-Aseptic. "A. D. C." (in circle), "Sterile" brand.
231/48. "Poudron" toilet-paper.
238/32. "Victor" vacuum-flask.
238/40. "Viola" soaps (pumice and toilet).
238/401. Lee's drops.
238/402. "Pyria" astringent lotion and tooth-powder.
237/21. Sodium - peroxide soap.
237/22. "Solat" feeding apparatus for babies.
238/36. W. R. Davies's foot-canker dressing.
238/3. Dr. Scheiding's Electrolyte for Star batteries.
238/54. Chase's universal "Red Cross" ointment (Ridgway & Co.).
238/540. Ball's "Sure Seal" fruit-bottles.
231/48. "Asomrof" tooth-paste.

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

Alvexo, 233/15.
"Anchor" brand sulphuric acid, 238/530
Antiphlogistine, 235/1
Blake & Mackenzie's labels, 238/35
Cactina pillets, 232/600
Caffanalid, 233/70
Caird's decoct. sarsæ cenc., 232/72
Camphylene cream, 232/73
"Cashmere" toilet preparations, 233/31
Celluloid-topped corks, 225/60
Damaroids, 238/36
Dutch medicine-chests, 231/63
Endolytic tubes, 231/41
Equinoint, 230/30
Fructines Vichy, 234/301
German fils toilet preparations, 236/1
German potato-spirit (for Siam), 230/56
Harvey's "London" corn and wart pencils, 234/55
Iodocitin, 238/33
"Ioene" perfume, 233/702
Klensene, 233/232
"Mill 39" toilet-paper, 236/16
Mothersill's sea-sickness remedy, 232/6
Nosophen, 238/34
Otosclerol, 238/31
Palmer's "Skin Success," 238/360
Petrogell, 238/37
Poltiplasta, 217/39
Phosto, 232/74
"Ranee" brand sulphuric acid, 238/53
Reducine, 233/231
"Rose Foam" bath-soap, 230/50
Rubber corks (for ammonia-bottles), 234/54
Ruppert's toilet preparation, 233/700
Sargol, 234/30
"Sanitary" metal arch support, 227/1
Waters's quinine wine, 226/31
"Witch" soap, 222/630
Wright's myrrh dentifrice, 219/10
"York" toilet-paper, 223/9
X-ray apparatus, 218/46
Zap, 228/35

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The President's Address

at the annual meeting of the Pharmaceutical Society is the most important pronouncement that has yet been made upon the question of the hour. It is not quite clear why Mr. White plumes himself upon the silence maintained by the Society hitherto with respect to the steps it was taking to get us out of the deficiency difficulty. There are steps, such as negotiations with outsiders (the Government, for instance), which a wise diplomacy would keep secret, but one does not see how investigations into purely domestic matters can be hampered by the "ventilation of views"; one would have thought that in such a matter the most complete exchange of views, the most open show of mutual confidence, and I may add criticism, would have been helps rather than hindrances. "The public Press" is rather a large term, but it includes, I suppose, trade journals, and to have kept these well informed as to what was being done would have been a better policy than silence. Investigation, and the consequent recommendations and suggestions to which the President referred—all, so to speak, for home consumption—appear to be all that the Council has achieved; it appears, too, that this is all Mr. White thinks possible. Does it justify his optimism? Let us hope so. There are, he says, only two things we as individuals can do—trust the Council and subscribe to the Parliamentary Fund. He asks not for promises, but for cash:

"Promise was a pretty maid,
But being poor she died unwed."

The Recommendations

referred to by the President amount to little more than this—that every deficiency area should see for itself that the "regulations covering an inquiry into accounts" are at once put in force, and the Preston conference is held up as a model for imitation. The two causes of deficiency may exist side by side, or each may to some extent or altogether exclude the other; the one inquiry should be so directed as to show in what proportion each is operative. This is the only ground on which the expenditure of such a sum as 4,000*l.* in Lancashire alone can possibly be justified. It would be a great mistake to institute a campaign against over-prescribers only; over-prescribing is, as Mr. Metcalfe said at Bradford, only the fringe of the question; even where it exists the task of bringing it home to individuals with sufficient force to secure their conviction would be very difficult. The immense depletion of funds from which many Insurance Societies are suffering shows that excessive sickness, not over-prescribing, is the crucial point; and our inquiries should be guided by the endeavour to convince Government of this fact. In this attempt we should have the doctors with us, and, our point established, we should have an irresistible case for the settlement of our accounts to date, and for better terms for the future.

Mr. James MacKenzie

has always some brainy idea to propound, and this year's gem was that the members who had paid their guineas for a score or two of years should be enrolled as life members without further subscription. Why not carry the notion still further, and do as some Insurance Societies do—not only relieve those who have paid for, say, forty years of all further payments, but actually award them an annual cash bonus? It is perfectly true that the present life-membership composition-fee of ten guineas is much too low; it used to be twenty, but during some of the lean years in the spendthrift era of the Society's history money had to be raised somehow. Consequently the ten-guinea bait was thrown out, and it was eagerly snapped at by the more long-headed and prosperous members. The Council promptly spent these compositions, instead of investing them, as had been the custom previously; and I am glad to note that the present Treasurer has restored his colleagues to sane finance by insisting upon composition-fees being reinvested. Every man who has paid twenty guineas to the Society in annual fees is as deserving of life-membership as the ten-guinea men. I dare say most of the members would forgo the "Journal" if that should appear to be a stumbling-block to the Council.

Reciprocity with Ireland

as regards registration of pharmacists would surely not be a difficult matter to arrange. There need be no hesitation in accepting the Irish pharmaceutical chemist as fit for registration as a chemist and druggist in this country, while British pharmacists ought to be welcome across St. George's Channel. Now that we have, after many years' delay, attained reciprocity with most of our Colonies, it will be a strange anomaly if men who are qualified to practise pharmacy in Great Britain or in Ireland continue to be debarred from transferring their service from one island to the other. I can hardly conceive of politics coming in to interfere with such a valuable arrangement as this would be, and one would naturally expect the people who are strong on the Imperial idea to make a move in the matter.

Mr. Brumwell's Letter,

in reply to what was said here the other week on bookkeeping, confuses two entirely different things, with one of which the Society, as a statutory body, has nothing whatsoever to do, whereas the other is the chief, or I might say the only, reason for its existence. A knowledge of bookkeeping is neither more nor less necessary to a chemist than to any other tradesman, and it is no part of the function of the Society to teach us the rudiments of business. To acquaint ourselves with these and to put them into practice is our own affair, and if we fail to do it nobody is injured but ourselves. But it is the function of the Society to see that we have sufficient knowledge and skill in pharmacy not to be a source of danger to the public. The state of mind which leads Mr. Brumwell to demand that Parliament should compel us to qualify ourselves for success merely as business men seems to me curious in a candidate for a place in the Council of the Pharmaceutical Society. In Germany says Mr. Jerome, one has only to be born; the police do the rest. Mr. Brumwell would apparently have it so here too.

It may Soothe

the feelings of "Agricola," who has paid up for damage occasioned to sheep by the operation of sheep-dipping, to recall that several cases similar to his own occurred in this country fifty years ago, and in every case, so far as my recollection goes, the Court required the chemist to pay damages. There was one case in Northumberland where 850 sheep were poisoned and the chemist was condemned to pay damages amounting to 1,400*l.*, with no doubt heavy costs in addition. In this case the farmer merely bought the dip from the chemist, and the untoward results followed from his using the dip according to the directions. "Agricola," however, seems to have applied the dip by his own agent, whose experience was also placed at the service of the farmer, thus laying on the chemist a greater responsibility than if he had merely sold the dip and it had been used unskilfully. Insurance against the risk involved seems the only way out of the difficulty, taking care that the charge for dipping shall cover amply the insurance premium.

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Wootton's "Chronicles of Pharmacy."

By arrangement with Messrs. Macmillan & Co., Ltd., we are able to offer this work (published by them at a guinea net) to "C. & D." Subscribers at 7s. 6d. carriage paid in the United Kingdom, and 8s. 6d. Abroad. The work is by the late A. C. Wootton (for many years Editor of "The Chemist & Druggist"), and is in two volumes, bound in maroon cloth. The twenty-four chapters deal with every phase of the history of chemical and galenical pharmacy from the earliest times, and include biographies and portraits of many noted men in medicine and pharmacy. The "Chronicles" tell about the origin of the more popular medicines and trace their development to official status. Most fascinating and readable to pharmacists, who are advised to secure a copy by ordering from

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Editorial Articles.

Insurance Dispensing Crisis.

The sudden upheaval in British pharmacy consequent on the discounting of chemists' insurance bills is not yet subsiding, and will not subside until the Pharmaceutical Council does something more than the President indicated in his address at the annual meeting last week. This was, substantially, a reference to what has been attempted in Lancashire. That has failed (see p. 56); anyway, the proposal was not one for providing money to pay the deficits, but one to wipe off the deficits by deducting part of them from the payment to doctors, another part by a similar deduction from chemists' accounts, and perhaps a third by proving the existence of excessive sickness and getting a refund from the local rates and Imperial Exchequer. There is provision in the Statute and Regulations for these things, and it was felt in official quarters that if the thousands of prescriptions dispensed in Lancashire were examined, statistics thus got together, and the whole thing reduced to a series of index-cards, a condition would be arrived at when the weak spot could be indicated with surety. We do not care to express in printers' ink what we think of this as a piece of practical politics, or as a suggestion for a solution of a difficulty the causes of which are so well known that they can be indicated without investigation. For example, the allocation to the drug-fund of 2s. per insured person per annum pays, on the average, for three eightpenny prescriptions per annum. Of Lancashire towns, only two—Burnley and Preston—notably exceed this price-limit, while eight exceed the numerical average of three prescriptions. Manchester and Salford are the places in Lancashire where panel chemists are worst off, and there it is perfectly well known that the system adopted by panel doctors of payment per attendance has resulted in frequent visiting and prescrib-

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ng. Last quarter's deficits are due more to increase in umber of prescriptions than to higher cost, although the tter is a factor which may be caused by larger bottles f medicine or more doses per bottle. Thus it is evident hat little relief can be expected from surcharges pon doctors. The attempt to enforce such surcharges pon Salford practitioners has only resulted in conflict etween doctors and chemists. When it is recolected that the average cost per prescription is 1*d.*, the Salford doctors have a right to resent the harge of extravagant prescribing. The Manchester Pharaceutical Committee has found great difficulty in proving xcessive prescribing.

Our contributors and correspondents make other sugguggestions for relief. We hope they will be carefully conidered by the authorities as well as by the trade. It ill be noted that the most likely remedies suggested are ationalisation of the drug-fund and payment of a higher rug-rate for females than for males. Nationalisation oks like a finger-post to State medical service. Besides, nly the balance of 1*s.* 6*d.* could be pooled; floating sixences belong to the doctors. In practice nationalisation ould mean pooling Scottish bonuses, which is useless for he deficit areas of England and Wales. A higher rate for emale workers (*i.e.*, females 2*s.* 6*d.*, males 1*s.* 10*d.*) would elp county boroughs with small deficits, but would not ake good the balance in others unless it was over 2*s.* 6*d.* n mining districts and some industrial areas like Gatesead it is the men who make heavy calls on the drugund, and this would need to be considered in re-apporioning schemes. In short, all the schemes put forward do ot give the relief that is wanted *now*, and do not pay he deficits of 1913. Therefore, we turn to the special rug-fund for excessive sickness. The Insurance Comissioners regard this as a reserve for epidemics. ut we have had no epidemic except influenza and its equelæ, and we see no reason why a special grant on ccount of such excessive sickness among female workers hould not be asked for. This year's Budget provides elief to certain approved Societies on account of excessive laims from female members, especially married workers, nd these are they who take most medicine. Why should ot panel chemists have their losses on the supply of drugs lso made good in the same manner? We agree that atience is still necessary for solution of the difficulties, articularly because the dispensing arrangements are workg well with full payment in the majority of the areas; ut now is the time for representations to be made on ehalf of the considerable minority who are losing under he system. In the meantime there is one grain of comort for panel chemists in England: they will know in he course of a few days the result of the audit of the first ear's accounts up to January 11, 1914. This is being ommunicated to Insurance Committees, so that chemists' ccounts for 1913 will be settled very soon in those places here part of them has not been paid.

Guaranty and Warranty.

The United States Sale of Food and Drugs Act, 1906, ontains a similar provision to that in Section 25 of our ale of Food and Drugs Act, 1875, which enables the efendant in any prosecution to be discharged if he prove hat the article sold by him was purchased with a written arranty, and that it was sold in the same condition s it was purchased. In the United States law, however, ection 9 states that

"No dealer shall be prosecuted . . . when he can stablish a guaranty, signed by the wholesaler, jobber, manufacturer, or other party residing in the United States, from whom he purchases such articles, to the effect that the same is not adulterated or misbranded."

This provision is, on the whole, better than ours, although as our law is constituted it would probably be unworkable with us. It is made workable in the United States by Regulation as follows:

Regulation 9. Form of Guaranty.

(*a*) [Repeats the part of Section 9 which we have quoted].

(*b*) A general guaranty may be filed with the Secretary of Agriculture by the manufacturer or dealer and be given a serial number, which number shall appear on each and every package of goods sold under such guaranty with the words, "Guaranteed under the Food and Drugs Act, June 30, 1906."

(*c*) The following form of guaranty is suggested:

I (we) the undersigned do hereby guarantee that the articles of foods or drugs manufactured, packed, distributed, or sold by me (us) [specifying the same as fully as possible] are not adulterated or misbranded within the meaning of the Food and Drugs Act, June 30, 1906.

(Signed in ink.) _____

[Name and place of business of wholesaler, dealer, manufacturer, jobber, or other party.]

(*d*) If the guaranty be not filed with the Secretary of Agriculture, as above, it should identify and be attached to the bill of sale, invoice, bill of lading, or other schedule giving the names and quantities of the articles sold.

In practice labelling the articles with a guarantee has had the inevitable result of conveying to the public the idea that the United States Government guarantee the articles to which the labels are applied. Now the Secretaries of the Treasury, Agriculture, and Commerce have come to the conclusion that the widespread deception of the public calls for the abolition of the guaranty label, which will accordingly be done after May 1, 1915. From that date the use of such labels on articles coming within the purview of the Act will be prohibited, and "guarantees of compliance with the law should be given by manufacturers directly to dealers, and should be incorporated in the invoice or bill of sale, specifying the goods covered." The quoted words are from the Order now issued by the three Secretaries, and it will be seen that they are substantially paragraph (*d*) of Regulation 9, the following being other parts of the Regulation that takes the place of the old one:

Any wholesaler, manufacturer, jobber, or other party residing in the United States may furnish to any dealer to whom he sells any article of food or drug a guaranty that such article is not adulterated or misbranded within the meaning of the Food and Drugs Act, June 30, 1906, as amended.

Each guaranty to afford protection shall be signed by, and shall contain the name and address of, the wholesaler, manufacturer, jobber, dealer, or other party residing in the United States making the sale of the article or articles covered by it to the dealer, and shall be to the effect that such article or articles are not adulterated or misbranded within the meaning of the Federal Food and Drugs Act.

Each guaranty in respect to any article or articles should be incorporated in or attached to the bill of sale, invoice, bill of lading, or other schedule, giving the names and quantities of the article or articles sold, and should not appear on the labels or packages.

No dealer in food or drug products will be liable to prosecution if he can establish that the articles were sold under a guaranty given in compliance with this regulation.

Besides being of direct interest to British exporters of food and drugs this *volte face* is of importance to us in view of the consolidation and amendment of our Sale of Food and Drugs Act proposed by Sir Philip Sassoon, Bart., the member for Hythe. Although there is no immediate prospect of that Bill becoming law, it is agreed that consolidation and amendment of Acts should be done. Were Parliament not so congested with talk as to impede business the Acts might have been overhauled before now. When the time does come the provision as to warranty will have to be remodelled. Section 25 has been

punctuated by Court decisions, and only under legal advice or direction can buyers and sellers tell by the wording of the section what is and what is not a warranty. Something may be learnt from the United States new regulation, which, it will be particularly noted, does not require prosecution of the seller as a preliminary to proving guaranty. If that can be done in the United States, why not also in the United Kingdom?

It is not surprising to learn that this proposal is received with disfavour in the United States. The "Oil, Paint, and Drug Reporter" makes a strong protest based upon the disturbing influence the proposed change will have upon trade. It is a peculiar circumstance that while Regulation 9 is being expunged by the three Secretaries the Department which has to do with imports is putting into force for the first time Regulation 33 (made at the same time), which requires that shippers of food or drugs to the United States shall make a declaration in the following form before a U.S.A. Consular officer:

[To be attached to extra copy of invoice on Form 138-140 or 139-140 of shipment over $100 in value.]

Declaration of Shipper of Food and Drug Products.

I, the undersigned, am the [seller or owner, or agent of seller or owner] of the merchandise mentioned and described in the accompanying Consular invoice. It consists of food or drug products which contain no added substances injurious to health. These products were grown in [country] and manufactured in [town and country] by [name of manufacturer] during the year ....., and are exported from [city] and consigned to [city]. They bear no false labels or marks, contain no added colouring-matter except [state colouring-matter used, if any], no preservative (salt, sugar, vinegar, or wood-smoke excepted) except [state preservatives or other articles used, if any], and are not of a character to cause prohibition or restriction in sale in the country where made or from which exported.

I do solemnly and truly declare the foregoing statements to be true, to the best of my knowledge and belief.

Dated at .....

this ..... day of ....., 19 .

[Signature] .....

Until quite recently London drug merchants and exporters have not been required to fill up these forms; but since "I do solemnly declare," etc., was added in February, they have had to use the forms. It is understood that they are for the benefit of the Bureau of Chemistry of the Department of Agriculture. Parenthetically we may remark that Regulation 32 refers to meat and meat-products, and incidentally to drug-products. At the present time the regulation is being stringently applied in the United States to exclude Argentine beef. The same declaration is necessary for beef as for drugs; is it possible that drug-exporters are suffering on account of American beef interests? No doubt drug-exporters will do their best to fill in the particulars according to the knowledge at their disposal, but in the case of many crude drugs such particulars cannot be given, as they are not obtainable. In the case of many essential oils, it would be impossible to state the name of the manufacturer, as they are bulked, blended, or redistilled since they were shipped from the original producing country. How would it be possible to obtain the date of growth of, say, a parcel of ipecacuanha, buchu, senna, or cardamoms? It is impossible in many instances truthfully to make such a declaration. The word "unknown" should be allowed in such circumstances. In addition to this, London exporters are now required to make out their Consular invoices to conform with a "Schedule of Merchandise" (of which there are only two copies in London). This schedule is for Customs purposes, the object being to obtain uniformity in classification of imports for use in official statistics.

A Lancashire Check.

The scheme proposed by Mr. Woolcock, on behalf of the Pharmaceutical Council, to check discounting of Lancashire panel chemists' accounts (see *C. & D.*, May 23, p. 91) has, we understand, fallen to the ground. At a meeting of the Committee held on Thursday the matter was discussed in all its bearings, after which Mr. H. E. Clark (Clerk of the Lancashire Insurance Committee) said it was not worth while spending any more time upon the matter as it appeared that the Panel Committees, Pharmaceutical Committees, and the representatives of the Insurance Committees did not approve of the scheme of central checking, and at present there is no reason to consider the appointment of a joint committee as no necessity had yet arisen in the county of Lancashire and no useful purpose could be served by altering the present system. As will be seen by our first editorial, this decision was anticipated.

Hannah v. Regem.

The Judicial Committee of the Privy Council has decided not to advise the King to accord special leave for Mr. Thomas Hannah, Amersfoort, Transvaal, to appeal against his conviction by the South African Courts for infringement of the Medical and Pharmacy Ordinance of the Transvaal. The remarkable forensic ability shown by Mr. Hannah was commented upon by the Committee and sympathy with him was expressed, especially in regard to the excessive penalty imposed upon him—fines of several hundred pounds or alternatively two and a half years' hard labour. The sentence is really vindictive. Although Mr. Hannah was wrong in interpreting Section 39 of the 1904 Ordinance to include one offence of which he had done a part only, whereas the part was one of the two offences in the section, there must be a measure of sympathy with him in the trade, and the Societies in South Africa might reasonably take up the Lord Chancellor's suggestion and apply to the South African Government for mitigation of the penalties. The Judicial Committee's interpretation of Section 39 is one of the best things that has been done for registered chemists in the Transvaal.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. Frank G. Ryan, president of Messrs. Parke, Davis & Co., Detroit, Mich., U.S.A., is at present in London.

Councillor T. L. Hollely, Ph.C., ex-Mayor of Retford, has now regained good health after undergoing a serious operation which necessitated his retirement from the Council Chamber for some weeks.

Mr. B. James is shortly starting for India and the East, carrying the Amami preparations for Messrs. Prichard & Constance, Ltd. Mr. Stanley Pyke has just returned from the West Indies after a very successful tour.

Mr. W. J. Leggett, formerly of 164 Wavertree Road, Edgehill, Liverpool, is now in improved health, and is residing at West Didsbury, Manchester. Mr. Leggett has undergone two surgical operations, and the last one appears to have been successful. He hopes to communicate with his friends soon.

Dr. Thornton.—The curious advertisement about Dr. Thornton's emerald ring and his botany classes, which we published from "The Times" of 1814 (*C. & D.*, May 9, p. 46), has been followed by an article in the "British Medical Journal," in which particulars are given of Dr. Thornton's career. He was well known as a botanist, but died in poverty in 1837, owing mainly to the luxurious style in which he brought out one of his works on botany.

CHEMICAL SOCIETY.

An ordinary meeting of the Society was held in Burlington House on Thursday evening, May 21, the President (Professor Perkin) in the chair. The first paper of the evening was by Mr. R. Bousfield on

Ionisation and the Law of Mass Action.

The paper dealt with the behaviour of the alkaline chlorides when dissolved in water. It is impossible to determine the degree of ionisation from the determination either of the freezing-point or of the vapour-pressure of solutions of various strengths since both the equations contain an unknown quantity—namely, the amount of free water. The author proposes a new equation depending on the concentration of the solution—that is to say, a new dilution law. The accuracy of this equation he demonstrated by determining the value for the degree of ionisation by combining this equation with either the data obtained from the vapour-pressure or the freezing-point. The paper was a highly theoretical one. The results obtained lead the author to conclude that in the case of lithium chloride the following equation states fairly well the conditions obtaining in aqueous solution :

$$5LiCl+7Aq = 2LiAq+2ClAq+3LiClAq.$$

This is made up of two equations, the first being the solution reaction, viz. :

$$5LiCl+5Aq=5LiClAq.$$

The second is the ionisation reaction, viz. :

$$2LiClAq+2Aq=2LiClAq+2ClAq.$$

Ipecacuanha Alkaloids.

Mr. F. H. Carr and Dr. F. L. Pyman, of the Wellcome Chemical-works, communicated a paper on the alkaloids of ipecacuanha. The historical facts of the subject were dealt with, and the authors stated that their results do not confirm the formula previously accepted for emetine. The three alkaloids—emetine, cephaëline, and psychotrine—are isoquinoline derivatives and contain a pyrocatechol nucleus. The first two possess both a secondary and a tertiary nitrogen grouping. The formulæ assigned to these three alkaloids are :

Emetine, $C_{29}H_{27}\left\{\begin{matrix}(OMe)_4\\ >NH\\ >N\end{matrix}\right.$

Cephaëline, $C_{29}H_{27}\left\{\begin{matrix}(OMe)_3\\ OH\\ >NH\\ >N\end{matrix}\right.$

Psychotrine, $C_{29}H_{26}\left\{\begin{matrix}(OMe)_3\\ OH\\ >N\\ >N\end{matrix}\right.$

Cephaëline yields emetine on methylation, and psychotrine gives cephaëline on reduction. Emetine and cephaëline differ in their behaviour on oxidation with ferric chloride. They are not reducible.

The only other paper was by Mr. J. Kenner on the "Influence of Nitro Groups on the Reactivity of Substituents in the Benzene Nucleus." The paper was a purely theoretical one, and dealt with hypotheses for explaining the methods whereby the already present groups enter into the reaction and the different results obtained depending on the position of these groups.

Faraday Lecture.

Michael Faraday died in 1867, thirty-eight years after his preceptor, Sir Humphry Davy. The memory of the latter was perpetuated by the Royal Society in the Davy Medal, and it was fitting that the Chemical Society should perpetuate the memory of Faraday in a similar manner, the medal in this case being presented to a distinguished man of science who is invited to deliver the Faraday lecture in the theatre of the Royal Institution, Albemarle Street, London. The first lecturer was Dumas (1869), and the others have been Cannizzaro, von Hofmann, Wurtz, von Helmholtz, Mendeléeff, Lord Rayleigh, Ostwald, Emil Fischer, T. W. Richards (Harvard), and on Monday of this week Dr. Svante Arrhenius, Director of the Nobel Institute, Stockholm, was the man who stood on the spot in the Royal Institution that Faraday so long lectured from. "There is no greater sanctuary for an electrochemist in the whole world," said Arrhenius, than this place. A distinguished audience awaited the lecturer and the President when they came in at six o'clock along with the President of the Royal Society (Sir William Crookes, O.M.) and other Past-Presidents of the Chemical Society. Perhaps the most interesting group was Mr. A. J. Balfour, Sir Oliver Lodge, and Sir Joseph J. Thomson, who came in together and sat together, three men of intellectual and spiritual force who would be difficult to match in this or any other country. One characteristic of the audience deserves mention : it was predominantly young, and largely drawn from the provinces. The President briefly introduced the lecturer. Arrhenius (ar-ane-e-us) is not a stranger to London. His face is familiar, and in that and figure (though cast in a smaller mould) he resembles Mr. G. T. W. Newsholme, a Past-President of the Pharmaceutical Society. He has a good command of good English, which he speaks with a Gaelic accent. His subject was *The Theory of Electrolytic Dissociation*, which he first made known in 1883, and he began by tracing historically from the time of Thales (sixth century B.C.) man's conception of the fact that things dissolved or in a liquid state react chemically most easily. Gay Lussac's ideas and work on solutions (1839) were in a masterly manner developed forty-five years later by van 't Hoff with the idea of the analogy between matter in the dissolved state and in the gaseous state. They did not come quite close to the dissociation hypothesis. Williamson with his supposed steady exchange of "radicles" (now called ions) between two interacting salts being the nearest up to the 'eighties. The lecturer spoke about Raoult's work (1885) on the molecular lowering of the freezing-point for salts in aqueous solution, which, however, did not bring that investigator to the idea of a dissociation of molecules in aqueous solution, and it was at this time that he himself came to the conclusion that the molecular conductivity increases with dilution, because the number of conducting molecules increases at the expense of the other, non-conducting molecules. At infinite dilution all molecules of an electrolyte are conductors. This hypothesis led to the following chief conclusions :

The molecular conductivity at infinite dilution is an additive property for all electrolytes, and not only within certain groups of electrolytes of similar composition, as maintained by Kohlrausch for the molecular conductivity of diluted electrolytes.

According to the thermo-chemical data given by Berthelot and Thomsen, the stronger an acid is the greater is its molecular conductivity. The electrically conducting molecules are therefore the same as the chemically reacting molecules, the nature of which is characterised by Williamson and Clausius. At infinite dilution all acids must therefore be of the same strength.

In accordance with these ideas, the velocity of reaction caused by an acid is proportional to its number of electrically conducting molecules per unit volume. This assertion could only be verified qualitatively in some very few cases, because experimental determinations were wanting.

The heat evolved on neutralising one equivalent of an acid consisting of only conducting molecules with a base of similar kind is always the same and equal to the heat produced when one equivalent of conducting molecules of water is transformed into one equivalent of non-conducting molecules. Therefore the heat of neutralisation of strong acids with strong bases at high dilution, as in the experiments of Thomsen, when they are composed almost entirely of conducting molecules, is very nearly the same for all acids and bases in equivalent quantities.

When a salt such as potassium ferrocyanide, $K_4C_6N_6Fe$, the ions of which are 4K and C_6N_6Fe, enters into a chemical reaction with another salt in aqueous solution, there are formed only ferrocyanides and potassium salts, but not ferrous or ferric salts, because the result is always a rearangement of the ions.

Dr. Arrhenius proceeded to discuss the acquisitions of facts bearing upon electrolytic dissociation since chemists began about twenty years ago to take a reasonable view of his enunciation in 1887, and he acknowledged the value of work done in Ostwald's laboratory, also

mentioning other contributions to the subject by other chemists, including American and English workers. From later work it seems probable that these cases in which the acid or base differs so very much from the salts are met with in derivatives of benzene, which may appear in two isomeric forms, one colourless "benzenoid" form and one coloured "quinonoid" form, to which the salt ions in this case belong. The reaction of phenolphthalein with potassium hydroxide was instanced in this connection. Concluding, the lecturer said that the difficulties inherent to the theory of electrolytic dissociation have been overcome only within a very recent period, and it is now our task to investigate the causes which interfere with the simple laws in more concentrated solutions, and to find those other theoretical laws which govern these deviations.

The President then presented Dr. Arrhenius with the Faraday medal in gold, remarking that it is the highest honour that the Society can give. He called upon the President of the Royal Society to propose a vote of thanks, which Sir William Crookes (now within a few weeks of his eighty-second birthday, June 17) did in a clear voice and in rounded periods. Sir William Tilden seconded the motion, confessing himself to being a convert to the Arrhenius theory. The lecturer, in expressing his gratitude, said that the Chemical Society of London was one of the first to support him. Afterwards Dr. Arrhenius was entertained to dinner in the Trocadero.

General Medical Council.

THE ninety-ninth session of this Council was opened at 199 Oxford Street, London, on Tuesday, May 26, Sir Donald MacAlister, K.C.B., M.D. (President), in the chair. Numerous penal cases threatened to make the session a long one—indeed, the Council may sit over the holiday, which would be an unprecedented proceeding. On one occasion the date of the session was altered to avoid Whitsuntide. Only twice during the ten years of Sir Donald's presidency has the business extended beyond the week. Sir Lambert Ormsby, F.R.C.S., has succeeded Sir Arthur Chance as the representative of the Royal College of Surgeons in Ireland, and was introduced by Sir Henry Morris. The absence from the Council of Sir Christopher Nixon and Dr. Hepburn through illness was noted with regret by the President, who in his

ADDRESS,

which was longer than usual, lamented the deaths of two old and esteemed friends, Sir John Batty Tuke, who in 1912 retired after twenty-five years of office as a member of the Council, and Dr. Pye-Smith, for over six years one of the Treasurers. Dr. Lorrain Smith has retired consequent on his translation to a distinguished position in the University of Edinburgh, and Dr. Elliot Smith has joined the Council. The President touched upon the National Insurance Commissioners' new regulations regarding insured persons who make their own arrangements as to medical treatment, adding that the Council has found it necessary to issue widely a warning to "panel" and "non-panel" practitioners that it takes a grave view of canvassing or advertising to attract patients and issuing certificates of a misleading character. Referring to the British Pharmacopœia, the President said:

"The Pharmacopœia Committee and the editors have been busily occupied in forwarding the preparation of the text and Appendices of the British Pharmacopœia. Before the end of the present session the Committee will be able to lay on the table of the Council a copy of the revised proof. Subject to typographical and other editorial corrections to be made in the final proof, this will represent the completed work, and the Committee hope to have it ready for issue during the summer. Following the procedure approved on the last occasion, you will probably desire to delegate to the Executive Committee, at its regular meeting in July, the duty of formally adopting the British Pharmacopœia, 1914, and of arranging with the Treasury as to cost and price, indicating the conditions under which copies may be made accessible to the public in advance of promulgation, and advertising the date of official publication in the 'Gazettes.' I may be allowed here, as Chairman of the Pharmacopœia Committee, to express publicly our deep obligations to the Editors, Professor Tirard and Professor Greenish, for their skilful and devoted labours, and to the several Committees of Reference who have aided us in manifold ways to attempt a work worthy to take its place as the official dispensatory of the British Empire."

Dr. Little expressed the thanks of the members to the President for his Address and their pleasure at seeing him recovered, adding the hope that by moderating his labours he would be able to give them and the nation the benefit of his services for many years to come.

Sir Charles Ball moved that the powers vested in the Council of appointing assistant examiners at the qualifying examination held by a medical corporation be delegated to the branch Council of the locality. This was supported by Mr. Wilkes, representing the Apothecaries' Society of London, and agreed to.

PHARMACOPŒIA COMMITTEE.

The following were appointed: The President (Chairman), Dr. Norman Moore, Sir George Philipson, Dr. Caton, Dr. Barrs, Sir Thomas Fraser, Dr. Cash, Sir John Moore, and Sir William Whitla.

FINANCE.

Mr. Tomes brought up the report of the Finance Committee, which showed a satisfactory surplus—the result not of increased receipts, but of decreased expenditure owing to the expedition with which the work was carried through the sessions. There was an impression abroad that the number of medical students was falling off. That was the case two years ago, and it looked serious for the Council; a drop of 200*l.* one year in the students' registration-fees meant a drop of 1,000*l.* when they came to be registered as practitioners. The number this year, however, compares favourably with the average for the past five years. The number of dental students registered is also steadily rising. The report suggested that, in view of the fact that lists were issued by private publishers, a circular might be sent to insurance offices and similar bodies, drawing attention to the fact that the Register is the only official list of legally qualified practitioners. This might lead to increased circulation. Dr. Norman Moore thought it most important that the Council should avoid the suspicion of advertising, and at his suggestion and with the concurrence of the President the words, "this is desirable in the public interest," were inserted in front of "and might lead to increased circulation."

The Council then went into camera to consider a matter which the President wished to bring before them.

WEDNESDAY'S BUSINESS.

The first penal business taken was the charge against Haripado Chatterjee, L.R.C.P.S.E. and L.R.F.P.S.G., 1910, of 1 East View, South Moor, Stanley, co. Durham, that he had last year accepted the post of medical officer of the South Moor Medical Association, which by circulars, canvassing, and solicitation sought to secure members; further that he had by public speeches advertised his qualifications to induce persons to join the Association; and, lastly, that knowing he was being advertised as the doctor of the Association, he acquiesced throughout the year 1913 and continued to be employed. Mr. Chatterjee was represented by his solicitor, Mr. Stuart, of Newcastle. The case created considerable interest, and occupied rather more than the whole of Wednesday, and went into Thursday. The British Medical Association were the complainants. The Council prolonged their sitting till the witnesses had all been heard, and the case concluded on Thursday afternoon. After deliberation *in camera* the President announced that the Council had found that two of the three charges had not been proved, and as to the third it was decided to consider it next session.

The Council will sit on Saturday morning, and the session will be carried on over Whit-Monday.

THE danger of employing methylated spirit in making iodine preparations intended for skin-sterilisation is emphasised by the experience in France of Professor Bousquet at the Hôpital de Clermont-Ferrand. The irritating vapours given off were the cause of the death of one anæsthetised patient and occasioned danger in other cases.

Chemists' Dental Society.

THE annual meeting of the Chemists' Dental Society was held at the Holborn Restaurant, London, W.C., on May 20 (see *C. & D.*, May 23, p. 97). The Secretary presented the annual report, of which an abstract was given last week, and it was adopted. In view of the insurance scheme having been formulated since the rules were drafted, it was decided that certain amendments in the rules be made and submitted for approval at the next half-yearly meeting. The financial statement was also approved. The President (Mr. E. Brownbill) moved a resolution, of which Mr. Kenneth Nixon had given notice, concerning the declaration required for membership, which was carried. In future applicants for membership will be required to make the following declaration:

"I am a duly qualified pharmacist of the Pharmaceutical Society of , and I have been engaged for three years in stopping and extracting teeth and adapting artificial teeth and performing other dental operations. I remit one guinea, and, if elected a member, I agree to abide by the rules of the Society as at present or hereafter to be constituted.

Election of Officers.

Messrs. Fuge (High Wycombe), Harries (Newport), Nixon (Hinckley), Roberts (London), Smith (Manchester), and Tasker (Fulham), who retired by rota, were re-elected members of the Council, with the addition of Mr. Holloway (Southend), who will act for two years. Messrs. Hearle (Islington) and Fairweather (Sydenham) were also elected on the Council for one year to fill vacancies.

Mr. Benson Harries expressed a strong desire to retire from the Secretaryship, the duties of which are becoming too heavy for him, but under pressure from the President and Treasurer he agreed to continue, and was unanimously re-elected, with expressions of appreciation of his past services.

Mr. Templar Malins, of Cardiff, was elected President for the ensuing year, and Mr. Kenneth Nixon Vice-President.

Mr. J. W. Roberts was re-elected Treasurer, and Messrs. Vigginton and Miller were appointed Auditors.

Mr. Templar Malins then took the chair and delivered an address, of which the following is an abstract, entitled

Is Further Dental Legislation Necessary?

He said that medicine, dentistry, and pharmacy are closely allied, and it is not surprising therefore to find that in the past legislation affecting these has been carried out on similar lines. The Medical Act, 1858, protects title and disables the unregistered from recovering fees. The Pharmacy Act, 1868, was intended among other things to protect title. The Dentists Act, 1878, protects title and disables the unregistered from recovering fees, and the Veterinary Surgeons Act, 1881, is similarly worded. In none of these Acts is it made illegal for the unregistered persons to carry on the work of the registered persons so long as they do not assume titles, act as apothecaries, or sell scheduled poisons. Following the passing of all these Acts, a Royal Commission appointed to consider the working of the Medical Act reported in 1882 and unanimously agreed upon the following recommendation:

"We consider it undesirable to attempt to prevent unregistered persons from practising, but at the same time we think they should be prevented from representing themselves as being registered, or from assuming titles which would lead the public to believe they are registered medical men."

Mr. Malins contended that this unanimity was because the Medical Act had been passed for the public geod and not for granting a monopoly to registered men, and because the Commission in their investigations discovered instances of good having been done in the art of healing by unregistered persons.

Then, considering the question as to whether further dental legislation is desirable, the President contended that in the interests of the public the law needs strengthening, but not by such an amendment as was contained in the draft Bill put forward by the British Dental Association in 1910.

Clause 2, clause ii. of the draft Bill stated:

"Any person who is at the passing of this Act, and for a period of not less than five years immediately before the passing of this Act has been, *bona-fide* engaged in the practice of dentistry (*such practice not being combined with any other occupation or calling*), and is not a registered dentist or registered medical practitioner, may at any time before the expiration of six months from the passing of this Act apply, if resident in England, Wales, or Ireland, to the Judge of the County Court within the district whereof he resides, or, if resident in Scotland, to the Sheriff within whose sheriffdom he resides, for a certificate that he is exempt from the penalty on unqualified persons practising dentistry."

In this clause the chemist is the target, as he is about the only one who combines dental practice with another calling. With no apology the Bill was dropped, because wiser heads realised that its demands were hopeless. The insertion of such a clause, however, shows how lightly chemists are esteemed by dentists. The law is weak, said the President, which permits the description "Dental Surgery" to be used by unregistered persons.

In regard to the question of the administration of local anæsthetics, here, again, the public good must be paramount. Consideration of all sides of the question shows that combined with antiseptics local anæsthetics are a great public boon, whoever the user may be. The employment of anæsthetics has taken away dread of tooth-extraction and induced many sufferers to part with bad teeth which were undermining the health. Many who fear being "put to sleep" willingly submit te local anæsthesia. There does not therefore seem to be sufficient cause at present to call upon Parliament to restrict the use of local anæsthetics. The suggestions of the President for dental legislation were summed up as follows:

1. Carry out the suggestion of the Royal Commission of 1882 regarding descriptions implying registration, especially the word "surgery."
2. Prevent bogus claims for malpraxis by fixing a time-limit for the notice of action to be given.
3. Do away with door-to-door canvassing for orders for anything that can be described as a medical appliance.

He appealed for co-operation between doctors, dentists, and chemists. The President further added that he would like to see registered dentists go a step higher and take the full medical qualification. Then as dental surgeons in the highest sense, like ophthalmic surgeons they could look for and obtain the fees of specialists. This would be far better than their present position of subservience to medical men whose qualifications are so little above their own.

As chemists, he said, "we merely ask to retain what has always been ours—viz., the right to perform simple dental operations and supply dentures on our own premises." If, however, the dentists decide to grant dental chemists a title denoting a lower qualification, he suggested it should be "Dentrician."

Other Business.

It was arranged to hold the half-yearly meeting in Manchester during the Exhibition week in September.

Mr. Fairweather, of Sydenham, and Mr. Hearle, of Islington, were elected Secretaries for South and North London respectively.

Refreshments were then served, while further discussion of the Society's affairs continued, the proceedings terminating with the usual votes of thanks to the officers.

In view of the fact that the National Health Commissioners are already proceeding with arrangements for the formation of the dental panel, all dental chemists are urged to support the Society. The address of Mr. Benson Harries, Hon. General Secretary, is 84 Commercial Road, Newport, Mon.

The Exports of Geranium Oil from Reunion (Bourbon) in 1913 amounted to 37,600 kilos., against 43,130 kilos. in the previous year.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Insurance Dispensing Problem.

III.—Remedies and Suggestions.

Having shown in previous articles that panel chemists throughout the country have a legitimate grievance owing to the discounting of their accounts with little hope of the deficiencies being made good; further, that there are contributing causes beyond their control, I now come to the practical point of suggesting remedies, with a view, if possible, of finding some common ground of united action in the immediate future.

Just as the causes of the trouble are further reaching than apparently many think, so the remedies will require to be more drastic than any hitherto suggested. Judging from suggestions made for local guidance, not only does the burden of loss lie upon the shoulders of the dispenser, but the onus of putting things right as well. This is apparently hinged on Clause 9 in "Memorandum" as to the powers and duties of the Pharmaceutical Committee. The clause reads:

"The Pharmaceutical Committee may make representations to the Panel Committee where it appears to them that the character or amount of the drugs ordered for insured persons by a practitioner, or practitioners, on the panel is in excess of what may reasonably be necessary for adequate treatment." (Regulation 40 (1).)

Apart from the fact that this is a more complex problem than appears on the surface, it comes far short of meeting the crisis which has arisen. Moreover, at least one Pharmaceutical Committee was practically told to mind its own business when it endeavoured to point out to a Panel Committee that certain prescribing appeared to it to be more than was "necessary for adequate treatment." As to remedies:

(1) In the first place, I hold that, as the Government was responsible for certain miscalculations, *it ought to provide the money to meet the result of these miscalculations.* If medical men, at the call of panel patients, have taken the Chancellor at his word, and through prescribing freely have unduly taxed the funds beyond the amount ear-marked for the purpose, then the Government ought to meet the obligation, and not the dispenser, who has no option in the matter but to dispense what has been prescribed. I think that the suggestion which the Editor of The Chemist and Druggist made a fortnight ago was quite on proper lines—viz., that representatives from the panel chemists of districts that have been severely hit should interview the Chancellor on this matter. He would at least get it more forcibly put than in the questions asked by well-intentioned but imperfectly informed members in the House of Commons. The Government ought to implement their own promise. One might well ask what has become of the Parliamentary Secretary in this crisis?

(2) Meanwhile there ought to be *a National pooling of the funds,* and money paid to areas according to their needs, in order to equalise circumstances over which the panel chemist has no control. The anomaly of the present system is seen in the wide range of demands upon the Drug Fund, so that in some parts of England 2*s.* per insured person is insufficient for payment, and in parts of Scotland less than 1*s.* is required, and a balance up to 1*s.* 5*d.* is paid to panel chemists as a bonus. The men who get the bonuses may argue, "Why should we be punished for areas where the prescribing is heavier than our own?" Panel chemists whose accounts are being discounted may naturally ask, "Why should we be punished for living in manufacturing centres?" Besides, as the scheme is national, the distribution should be on a national basis; then we should see how far the 1*s.* 6*d.* or 2*s.* per head would go towards adequate remuneration.

(3) *The rating of males and females ought to be on a different basis.* I have already pointed out that women require medical attendance more frequently than men. A difference ought, therefore, to be made proportionate to the proved demand for medical treatment by female workers over male workers in industrial areas.

(4) *Prescriptions must be checked,* but on a basis different from that now being urged—viz., that it should be done by panel chemists or at their expense. It is clearly the duty of Insurance Committees to assure themselves that the accounts submitted by chemists are correct, and the Insurance Commissioners consider that checking of the accounts and prescriptions is an expense which is to be met from the administrative funds of the Insurance Committees. The Scottish Commissioners have until recently favoured the thrusting of this work upon Pharmaceutical Committees—a most invidious infliction, besides being an added expense to chemists, which should be strenuously opposed.

(5) *A check on over-prescribing* is, perhaps, the crux of the whole matter, certainly the most serious part of it, but to put the checking of this upon the Pharmaceutical Committees is surely the last straw. Panel doctors regard it as a piece of gross impertinence for us to interfere with the prescribing at all. The Insurance Committees, composed mainly of Friendly Society members, support the position in the main. Two questions are involved in over-prescribing—viz.: (*a*) What should not be prescribed at all? and (*b*) How much of what is legitimate should be prescribed? As to (*a*), local lists of proscribed medicines are drawn up, but there ought to be *one authoritative official list,* and so end the risk of conflict between local prescribers and dispensers. As to (*b*), the chemist has no right to interfere, and this also ought to be regulated by one authoritative official regulation.

(6) My final proposition is that the sums allowed for Medical Benefit and payment of the drugs should be lumped, and *that the medicines be the first charge on the total sum.* Medical men, on the whole, have done fairly well in their part of the bargain. *It is for the Government to hold the scales of justice evenly, and see that the panel chemist—whose work is just as important in its own place as that of the prescriber—is not allowed to suffer a cruel and unmerited wrong.*

The New Pharmaceutical Committees.

The Insurance Commission (England) has issued a "draft model scheme for constitution of Pharmaceutical Committees." As forecasted in the *C. & D.*, April 25, p. 135, the election of the new Pharmaceutical Committees in June will be by postal vote at the Pharmaceutical Committees' expense.

Unlike the draft schemes for Panel Committees, there is no provision for dividing counties and large county boroughs into "constituencies," partly no doubt owing to the smaller membership of Pharmaceutical Committees, but mainly because Circular 45/I.C. states that no formal schemes were submitted before March 31, but a considerable number of Pharmaceutical Committees intimated their desire for election to continue on the lines adopted for the first Committees. The model scheme perpetuates accordingly in abridged form the provisional regulations of October 13, 1913, with few variations—viz.: The Returning Officer is appointed by the Pharmaceutical Committee, subject to the Insurance Commissioners; election is by postal vote as soon as may be after June 1, but not later than July 1; no payment may be made to any Secretary of a Committee who is also a member of the Committee; the Committee holds office for one year from July 15. Section 26, which is new, reads as follows:

> The Committee shall prepare in each year a report of their proceedings since the publication of the last report, together with a statement of accounts, and this report and statement of accounts shall be circulated to the electors for the next ensuing election not later than the date on which notice for the election of a Committee for the ensuing year is despatched by the Returning Officer.

Amendment of the scheme may only be made at meetings of electors summoned on request of not less than two-thirds of the members of the Committee or ..... of the persons who were electors at the last preceding election. Seven clear days' notice of the meeting has to be given to each such elector. Despite the fact that representatives of "persons not entitled to dispense" fill only a third of the seats available for them, their representation is provided for as before, and the model scheme cannot be amended in this particular. Any alterations desired must be submitted to the Commissioners not later than June 8.

Notes.

Liverpool and Tuberculosis.—The Liverpool Corporation has a scheme for the prevention and treatment of tuberculosis, which is designed to work in conjunction with the Sanatorium Benefit of the Liverpool Insurance Committee under a joint committee. The scheme is to embrace all cases of tuberculosis, with particular regard to non-insured persons, so that proper preventive measures may be adopted and adequate treatment secured for all cases of tuberculosis occurring in the area of the city of Liverpool. The Liverpool Chemists' Association has been asked whether the chemists would be willing to dispense for the Corporation under the scheme at Insurance Tariff rates. The Council of the Association, believing that it would be a step in the right direction, and considering the possible alternative of the dispensing being undertaken by the Corpora-

n, have expressed their willingness to carry out the heme; therefore, it will be put into operation immeiately. Three institutions are already set up—Northern, ntral, and Southern—at which patients will attend. The escriptions will be written in triplicate, as the Insurance eseriptions are, but they will be of a distinctive colour. e chemist will supply anything that is ordered, whether oprietary or otherwise. The drugs and preparations to nform to the standards of the British Pharmacopœia or B.P.C. The accounts will be rendered quarterly to the verpool Corporation, and will be paid in full.

PRESCRIPTION-CHECKING.—We have on various occasions rered to the arrangements for checking prescriptions and nel chemists' accounts in London and Middlesex counties, hereby the cost is borne by the Insurance, Panel, and harmaceutical Committees jointly, instead of by the Inrance Committees alone. Mr. A. E. Bailey (Highgate) is chief clerk in charge of the checking, and the London surance Committee's Drugs and Appliances Sub-Comttee, consisting of two representatives each from the nel and Pharmaceutical Committees and four members the Insurance Committee, have control of the departnt. The Middlesex Insurance Committee has combined th the London Insurance Committee, and the "Pharmatical Journal" offices, 72 Great Russell Street, W.C., ve been taken for the staff, which combines checkers forrly employed at the Square and by the London Insurce Committee (see the paragraph "London," p. 62). me rearrangement has been made as to accounts and escriptions; the latter are to be arranged by values, inad of in hundreds, and the account-form is in triplicate. ter the prescriptions are checked the account is adjusted cording to the new values, and, of the three copies, one sent to the Insurance Committee for payment, one is retned at the checking-office, and the third copy is sent back the chemist. As the new account is made out in columns rallel to those containing his original figures, the chemist ble to see at once where the alterations have been made. e Drugs and Appliances Sub-Committee will meet at ular intervals, when any cases of abnormal prescribing l be brought to its notice, and doubtful or difficult questns in connection with articles which have been supplied be settled. The following suggestions for sending up escriptions are offered by Mr. Bailey to panel chemists:

ndicate exactly on the prescription what has been supplied re there is any chance of ambiguity.

Write in the formulæ of all stock-mixtures or send a copy h each bundle. Insert the letters B.P. or B.P.C. where essary.

Where drugs or articles have been specially obtained write in net cost-price and the source of supply.

in repeats to original forms, and where the original is in the batch sent in write out formula on form.

tamp every prescription on back if no space for stamp is on front, but do not obliterate signature or anything else.

o not paste, pin, or sew forms together. Tie the whole bundle tly two ways with stout string and fix the account firmly the bundle.

HEFFIELD FORMULARY.—A Sub-Committee of the Sheffield nel Committee has been engaged in the production of a al Formulary to save the Drug Fund, and it will be blished soon at 1s. A circular issued by the Hon. Secretry states that the medical profession has not in the past died economy in prescribing as opposed to dispensing, in compiling the Formulary such expensive tinctures as damoms and orange have been omitted, as well as many er articles which are not therapeutically indispensable. me lessons in economy are given—*e.g.*, it is explained t tinctures are 4*d.* per oz., and 5 minims of such a tine e in each tablespoonful of an 8-oz. mixture will cost ee-halfpence, but 7½ minims in each dose will cost a ny. We think the Hon. Secretary is wrong. The West ling Tariff states that 2 drachms and under of any ture is a penny, and we are not aware of any Tariff ich allows a fraction of 2 drachms of a fourpenny tinc o to be charged more than a penny, although some erpreters imagine that a drachm and a half is three-halfce. Dealing with aquæ in the Tariff, the circular mens that 6 oz. of aqua chloroformi costs one-halfpenny, "ad viii. oz." costs a penny; it is suggested that this erence means that one-halfpenny on each bottle prebed represents over 1,000*l.* to the Sheffield annual drug . so the doctors are advised to prescribe 2 or 3 minims emulsio chloroformi or 6 oz. or less of the water and ad ʒviii. or a drop or two of chloroform. The Comtee is not against proprietary preparations; in fact, it stated that the medical profession in Sheffield has succded in persuading the Insurance Committee to withdraw esolution which prohibited the prescribing of proprietary edies, but in compiling the Formulary it was decided t some physiological standard was necessary in the case digitalis, and it was found that one proprietary preparan has been used largely to the exclusion of others. So to avoid placing one proprietary article in the Formulary, it was agreed with the Pharmaceutical Committee to adopt a standard which will allow competition between several makers, and doctors may prescribe any proprietary digitalis preparation. We note that liquid extracts of digitalis, nux vomica, ipecacuanha, and hyoscyamus are to be used to the exclusion of tinctures. In the case of the hyoscyamus extract the strength is 0.075 per cent. of mydriatic alkaloids, or ten times that of the official tincture. The circular suggests for the sake of economy that uva ursi should be used in place of buchu because it is much cheaper, and that tincture of quillaia should take the place of senega infusion. Some good advice is given as to the prescribing of pills, tablets, and lozenges, so as to avoid extravagant fees. Polypharmacy means increased charges because each ingredient must be paid for—*e.g.*, an aperient pill not on the list which contains seven ingredients costs 6½*d.* the dozen, although 2*d.* is its commercial value. It is suggested that, when possible, a mixture should be prescribed, and the Formulary contains a few mixtures which are intended to replace some tablets. After referring to "Rep. mist." and indulging in further reflections regarding extravagant prescribing, the circular proceeds to discuss the question of proprietary remedies.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Bedfordshire.—Mr. E. M. Carruthers, 143 Castle Road, Bedford, and Mr. T. R. Stevenson, chemist and druggist, Station Road, Harpenden (Herts), have been added to the panel of chemists.

Birmingham.—The Insurance Committee have decided to instruct chemists that in all prescriptions chargeable to the Committee distilled water should be paid for only when aq. destillata is prescribed, and not when aqua is prescribed. Dr. Furneaux Jordan, who moved the resolution, thought something like 2,000*l.* might be saved in this way, without any harmful effects to the insured persons. Other medical members of the Committee agreed that the Corporation water is sufficiently pure for the purpose of dispensing the bulk of the prescriptions, and such opposition as there is to the resolution comes from laymen.

Cheshire.—At a recent meeting of the local Medical and Panel Committees of the county it was resolved to make a voluntary levy of ½ per cent. of panel receipts to finance the Committees, and to inform the Secretaries of the twenty-three districts that, unless it be agreed to, Section 33 (2) of the 1913 Act must be resorted to, and if that be done the Pharmaceutical Committee would also be financed from the panel money, a contingency which would be avoided by agreeing to the voluntary levy. The Pharmaceutical Committee has been informed of the fact.

Coventry.—Chemists' accounts for the quarter ended April 11 totalled 1,011*l.* 14*s.* 7*d.* for 31,432 prescriptions dispensed, exceeding for the corresponding quarter last year by 326*l.* 9*s.* 11*d.* and 7.485 respectively. Cheques have been drawn for 910*l.* 19*s.*, being 90 per cent. of the totals of accounts received.

Derby.—Mr. W. Elmitt, the chemists' representative, complained to the Insurance Committee on May 20 in regard to discounting of chemists' accounts. He said that, as good value had been given, the accounts should be paid in full.

East Suffolk.—Mr. H. G. Parker, chemist, Wickham Market, in a letter read to the Insurance Committee on May 26, complained that the local doctors declined to send their prescriptions to him. Mr. Netherton (Ipswich) said they could not compel a doctor not to give away medicines free. The Chairman said that there were two firms of doctors at cross-purposes. It was resolved that the Panel Committee use the strongest possible pressure to bring the Wickham Market doctors into line. A motion was carried unanimously asking chemists to make arrangements for dispensing Insurance prescriptions on early-closing day.

Essex.—At a meeting of the Insurance Committee on May 19, Mr. R. Annis (Chairman of the Medical Benefit Sub-Committee) said, in reference to the doctor struck off the West Ham panel recently (*C. & D.*, May 23, p. 92), that it appeared that, in addition to being on the panel as a doctor, this practitioner was also on the panel as a chemist with the same surname but a different Christian name. It was stated that the practitioner committed the same offence in Essex as he did in West Ham, but he is not on the Essex chemists' list now. So far as the Sub-Committee could ascertain, patients had not suffered in any way. In reply to a question whether the doctor had directed patients to take prescriptions to his own shop, Mr. Annis

said it was true that the chemist's shop and the surgery were on the same premises. They had been informed that the General Medical Council would in all probability take the matter up.

London.—The telephone number of the Pharmaceutical Committee of the County of London is 6563 Holborn. It should be a convenience for panel chemists in the county to know this, as the Secretary (Mr. G. A. Tocher) is pleased at all times to answer inquiries in cases of emergency in respect to any matter within his sphere of office. As already reported, the offices are at 233-6 Bank Chambers, 329 High Holborn, W.C., and the office hours are from 10 A.M. to 5 P.M. weekdays and 1 P.M. on Saturdays. The Secretary asks us to state that all communications by letter on different subjects should be written on separate sheets of paper.—The London Insurance Committee were informed on May 28 that the Pharmaceutical Committee had now agreed to the appointment of the Drugs and Appliances Sub-Committee (*C. & D.*, April 25, p. 136), and that the Panel Committee also concurred, subject to their contribution for 1914 not exceeding 800*l.*, and provided that the examination of prescriptions is of such a character as will provide the Panel Committee with information (1) as to the prescribing by practitioners of unnecessarily expensive ingredients, and (2) as to grossly extravagant prescribing. The Insurance Committee consented to an agreement being made with the Pharmaceutical Society of Great Britain to have four rooms at 72 Great Russell Street, W.C., at a rent of 200*l.* per annum, inclusive of rates, heating, lighting, cleaning, and furniture, subject to three months' notice. Of this rent, 50*l.* is in respect of accommodation for checking Middlesex Insurance prescriptions, which work is being undertaken by the Sub-Committee at payment in proportion to the number of prescriptions checked. (See under Middlesex.) The checking staff authorised to be temporarily employed as from May 1 are: Secretary (at 250*l.* per annum); one principal woman assistant (150*l.* per annum); four women assistants (104*l.* per annum); fourteen women assistants (at 30*s.* week); six men assistants (35*s.* week); one woman typist (30*s.* week); ten junior female assistants (12*s.* 6*d.* week). The arrangement to check Middlesex Insurance prescriptions necessitates the employment of seven additional women assistants (30*s.* week) and three men assistants (35*s.* week). The Drugs and Appliances Committee reported that the Pharmaceutical Society had kindly made accommodation for their meeting at the Society's offices in Bloomsbury Square, and that the arrangement with the Middlesex Committee "would conduce to economy" and "be mutually satisfactory to each Committee." The list of chemists increased by eight last month to 828. An application from the medical officer of the London Hospital to supply drugs to the resident insured staff on his list was refused. Payment was ordered of 50,209*l.* 5*s.* for panel chemists' accounts this year, and 442*l.* 15*s.* from last year. An advance of 500*l.* to the Pharmaceutical Committee for expenses was approved. A scheme for the distribution of surplus funds to panel doctors was again referred back.—The Panel Committee met on Tuesday, and discussed the "Rep. mist." question, but could not come to an agreement. It will be continued in their next. Several matters were referred to the Pharmaceutical Committee.

Middlesex.—The arrangements with the London Insurance Committee's Prescription-checking Sub-Committee for checking chemists' accounts include reports to the Middlesex Insurance Committee containing (i) a list of chemists' accounts for the preceding month, checked and corrected and ready for payment; (ii) analysis and statistics of doctors' prescriptions; and (iii) a report of any other important matter connected with prescribing. The Middlesex Committee also desire each prescription to be checked twice: once for pricing errors and once for "extravagance and excess" in prescribing.

Plymouth.—At the conference with the Pharmaceutical Committee some suggestions from the local Medical Committee will be submitted.

Portsmouth.—A report on the past medical year shows that chemists were paid in full, about ¾*d.* remaining for the panel practitioners out of the "floating" sixpence. Prescriptions numbered 163,884, averaging 6¼*d.* per prescription in the first quarter and 8.1*d.* in the last quarter. The payments to chemists, amounting to 5,100*l.* 11*s.*, were distributed as follows: First quarter, 1,143*l.* 19*s.* 8*d.*; second quarter, 1,244*l.* 7*s.* 5*d.*; third quarter, 1,277*l.* 18*s.* 4*d.*; fourth quarter, 1484*l.* 5*s.* 8*d.*; the amount transferred from Drug Suspense Fund was 1,161*l.* 6*s.* 11*d.*

Salford.—The Pharmaceutical Committee's complaint against sixteen doctors of over-prescribing came before the Insurance Committee on May 22. Neither the report of the Panel Committee nor the counter one of the Pharmaceutical Committee has been made public, but the Panel Committee decided that in none of the cases mentioned had the doctors prescribed extravagantly, and stated that it was "a manifest injustice" on the part of chemists to ask for an inquiry and surcharge after the lapse of a year. Each of the practitioners had appeared before the local Medical Committee, and assured its members that his prescribing had been on the same lines as before the advent of Health Insurance. The Panel Committee estimated that the amount spent on chloroform-water in prescriptions for 1913 was 1,000*l.*, and "desired it to be borne in mind that, with the dispensing-fee, the profit allowed by the Tariff was not less than 128 per cent., and that, with only 75 per cent. of the accounts paid in full, the profit yet became 96 per cent." Their report further states that the method of administration of Medical Benefit in Salford was the best for the insured person. The Pharmaceutical Committee's reply states that seventy doctors, who are below the general average, substantiate their claim of over-prescribing; Salford chemists have been working upon probably a lower Tariff than elsewhere in the kingdom. The amount spent on chloroform-water was more like 60*l.* than 1,000*l.* Chemists had received 66 per cent. of their accounts for the last year, not 75 per cent. as suggested, and it is pointed out that dispensing-fees are not profit, but payment for services rendered. The pharmacists also state the belief that the cost of treatment per patient could be very materially reduced. During the discussion, after reference to the danger of the interests of insured persons being overlooked, Dr. Taylor said it was quite possible that a few doctors might be over-prescribing and prescribing unnecessarily, but that was another question altogether. There was, he thought, no danger of the insured person suffering. On comparing the cost of Insurance prescriptions during the last three months with those for last year, in something like 90 per cent. the new arrangement had made no difference whatever, and the doctors were prescribing just as freely and as well as last year. Only a few doctors, said to have prescribed excessively last year, had dropped their prescriptions to a "most infamous extent." A doctor whose prescriptions had cost last year 1*s.* 8*d.* to 1*s.* 10*d.* per patient treated per month, in one month had come down to 5*d.*, and another 7*d.*, and another 8*d.* Dr. Garratt said the whole matter really turned on whether the fund was sufficient, which was not the case, having regard to the amount of sickness in Salford last year. The average cost per prescription at Salford was 7.1*d.*, and a script might include two or three prescriptions. In the British Pharmacopœia there were nine official mixtures, of which six were on their Tariff. These would average between 1*s.* and 1*s.* 3*d.* per prescription, and it would be unjust to pick out men who had exceeded the 7*d.* per prescription and surcharge them, when they were still within the limit of the standard set by the best hospitals of the country. He suggested a local inquiry by the Insurance Commissioners. Mr. J. W. Gill (chemists' representative), in supporting this motion, said that, although there was a feeling that the chemists were in a grabbing mood, they had, in fact, no desire for more than their just demands. There ought to be more money for the Drug Fund in industrial areas, as compared with those for suburban and rural areas. Mr. Edward, saying it was time the squabbling between the doctors and chemists was stopped, remarked that it was a puzzle to him if chemists were being ruined—(laughter)—that they should still have notices in their shops that they were open to dispense for insured patients. If the Drug Fund was not sufficient they should take the bull by the horns and let the Insurance Commissioners know they must have more if they were to carry on their work. The motion to ask for a local inquiry was adopted.—The official return for the year which ended January 11 of this year shows that the amount of chemists' accounts, after checking, was 12,064*l.* 3*s.* 10½*d.* The amount which they have received out of the Drug Fund for that period is 8,042*l.* 19*s.* 5*d.* Thirty-four received under 50*l.* each, nine drew over 500*l.*, four over 100*l.*, five over 200*l.*, one over 300*l.*, two over 400*l.*, while five received between 500*l.* and 1,000*l.* On one topped 1,000*l.* During March chemists' accounts totalled 882*l.*, and the 724*l.* available allowed of payment at the rate of 81 per cent. The balance of chemists' accounts unpaid in the first quarter of the year is 541*l.*

Sheffield.—The following figures show the unsatisfactory state of the Drug Fund for the first quarter of 1914:—

	Prescriptions	Percentages Paid	
January	51,142	75	or 70 per cent. on the quarter.
February	45,648	75	
March	51,318	60	
	148,108		

The quarter's accounts as rendered amounted to 5,086*l.* 14*s.* 11½*d.*, an average of 8¼*d.* per prescription, con

d with 514,081 prescriptions last year, averaging 7.56*d.* e was a sum available for 1913 estimated at 15,250*l.*, unchecked accounts were presented for 16,098*l.*, show- an estimated deficit of under 5 per cent. The pro- on of women is 23 per cent. of insured persons. ors dispensed for 1,500 insured persons.

nderland.—The "North Mail," in its eighth article State Insurance, says that the Insurance Committee his county borough are particularly fortunate in having rk whose training eminently fitted him for the position he person of Mr. Robert H. Mushens, chemist and gist, who is a trained chemist, and had a medical rience of many years in his connection with the now ct Provident Dispensary. The panel of chemists, num- g forty-six, dispensed 133,531 prescriptions in the first cal year, for which they were paid in full. Mr. A. J. ison (Secretary of the Local Pharmaceutical Com- e) says the Act has taken from chemists a good deal e sale of their specialities. There has been a very rkable increase in the quantity of medicine taken in uarter ended April 1914, as compared with the corre- ding quarter of the previous year.

rrey.—The list of chemists now contains 185 names. January ten chemists have signed agreements and resigned. The Finance Sub-Committee informs the rance Committee that if the Panel and Pharmaceutical mittees make application for administrative expenses they should bear some proportion of the cost of pre- tion checking. As the Panel Committee has not asked money for expenses and is unwilling to take responsi- for any part of the cost of checking prescriptions, inance Sub-Committee has asked the Medical Benefit Committee to consider whether prescriptions should hecked for the remainder of the year. The cost of king prescriptions for January last was 16*l.* 8*s.* 6*d.* ents to chemists on account for the month ending 11 and balances on January accounts totalled 1,3 *l.* 1*s.* 1*d.*

est Bromwich.—At the meeting on May 20 of the ance Committee the recommendations adopted to check prescribing are:

(1) That chemists to report to the committee cases of what r to them to be extravagant prescribing, and more particu- cases where insured persons are apparently obtaining medi- over-frequently. (2) The medical practitioners should be where possible, and in preference to repeating smaller s, to order ½-oz. doses with water and large-size bottles. (3) harmacopœia. That three medical practitioners appointed e Panel Committee and three pharmacists appointed by the maceutical Committee constitute a Pharmacopœia Committee e purpose of framing a West Bromwich Pharmacopœia on nomical lines as possible. Pending this a temporary Pharma- a will be used. That where "aqua" is used in the Pharma- a (recognised for the time being) "aqua font." shall be stood invariably. "Aqua dest." is only to be supplied in macopœia mixtures, etc., when specially mentioned. That a suitable card be issued by the Insurance Committee to itioners on which a copy of private prescriptions may be n by the doctor and handed to the patient for future nce when desirable.

Finance Sub-Committee reported that the total of the nt for drugs last quarter for Medical Benefit amounted 4*l.* 12*s.* 8*d.* for 24,905 prescriptions; further charges of 12*l.* were anticipated—a total of 786*l.* approximately. stimated amount available to meet this was 550*l.* The Committee had paid the chemists 66⅔ per cent. of their nts as submitted, a sum of 516*l.* 7*s.* 9*d.*, roughly 93 per of the amount available. Endeavours would have to ade to economise considerably if the deficit was to be d up on the remaining quarters of the year.—The macopœia Committee met on May 27 at the Insurance mittee's offices to consider further the compilation of a formulary, the Birmingham Health Insurance Phar- pœia, 1913, in use at present, being found too expen- and in some respects unsatisfactory. Mixtures will be ged as far as possible in ½-oz. doses. A number of ulæ were agreed upon, and copies of these will be to panel chemists during the next few days.

est Hartlepool.—At the monthly meeting of the lepool Insurance Committee on May 20 the report of pharmaceutical auditer showed that prescriptions eable to the Drug Fund for the past quarter numbered 9, costing 733*l.* 6*s.* 7*d.* The Clerk stated that the maxi- amount available for advance payments was 9*s.* 6*d.*, or a little more than 70 per cent. Mr. E. ly said the reason why they could only make payments e rate of 70 per cent. at present was because of the ased cost of prescriptions per insured person. It had ged about 6*d.*, but last quarter it had increased to per insured person. They hoped, however, to get a al grant from the Commissioners to cover the differ- Mr. Moody added that he thought some of the prescriptions were a little too liberal, and mentioned one prescription of 200 cascara tablets, remarking, "If there are many similar to that there are grounds for very close scrutiny. It cannot be denied that this is an extravagant prescription."

Yorkshire (N.R.).—The Pharmaceutical Committee met at Northallerton on May 20, along with Mr. J. W. Peacock (Clerk to the North Riding Insurance Committee). Mr. G. Whitfield presided. A thorough examination of the accounts relating to chemists and scrutiny of the prescriptions took place. The panel list was checked, and minor alterations noted.

SCOTLAND.

General.—The financial statement issued by the Pharmaceutical Standing Committee (Scotland) for the period from March 1912 to April 7, 1914, shows that the expenditure during the two years was 291*l.* and the income 270*l.*, of which 265*l.* was from subscriptions and the balance cash from the sale of Tariff supplements. The expenditure was all on printing (124*l.*), postages and the like (78*l.*), travelling expenses (81*l.*), and advertising (5*l.* 11*s.*). The Secretary (Mr. J. R. Hill), in his covering remarks, says: "During the first two years there was necessarily incurred a heavy expenditure owing to the initial work requiring to be overtaken in an endeavour to have suitable arrangements established from the outset. It is anticipated that the annual expenditure may not in future be so high, but much difficult and strenuous work still requires to be done, and the success of such work depends on prompt, universal, and adequate financial support from all panel chemists in Scotland." The Standing Committee has issued to all panel doctors in Scotland a letter of four printed foolscap pages as a sort of counterblast to the letter and card recently issued by the Commissioners regarding the stated case on behalf of panel chemists for a scale of dispensing-fees adapted to Scottish pharmaceutical practice. That letter (*C. & D.*, May 9, p. 50) contained imperfections and errors which the Standing Committee endeavoured to have removed before it was issued, which failing they sent out the explanatory letter. The Standing Committee then explains how prices have altered on the open market, and that these are chiefly accountable for the proposed changes; at the same time they point out the errors in Schedule II of the Commissioners' letter, which were so serious that the schedule was replaced (*C. & D.*, May 16, p. 53). The letter proceeds to explain that the dispensing-fees were framed by English chemists on the basis of 2*s.* an hour, which, it is pointed out, is inadequate for Scotland, where the prescribing differs so much from English, especially in volume of dosage, the result being that a Scottish chemist may get only 2*d.* in dispensing-fee where an English chemist may get 10*d.* or 1*s.* There are more powders, pills, and other forms than mixtures also prescribed in Scotland. The letter concludes with remarks upon "the so-called bonus."

Aberdeen.—Mr. J. Rutherford Hill is to attend a mass-meeting of Aberdeen city and county chemists which will be held to discuss the action of the County Medical Sub-Committee in deducting 20 per cent. from the last quarter's accounts. A decision will then be arrived at as to whether the chemists will remain on the panel or not.

Edinburgh.—The meeting of the Panel Committee, which dealt with the Commissioners' circular about the Drug Tariff (*C. & D.*, May 16, p. 53), also resolved not to contribute to the expense of checking prescriptions, agreed to oppose the prescribing or dispensing of secret formulæ, and to suggest to the Insurance Committee that liq. cresol. sapon., B.P.C., be substituted for lysol, and that picric-acid gauze be added to the list of drugs and appliances allowed as a monthly supply to panel practitioners. It was further agreed to suggest that hypodermic tablets of morphine, heroin, and strychnine be emergency drugs, to be supplied to panel practitioners for the treatment of insured persons. A motion "that no list of vaccines approved by the Panel Committee be submitted to the Edinburgh Insurance Committee" was defeated, and it was agreed that staphylococcus, bacillus coli, von Pirquet, and streptococcus vaccines, with tuberculin and blood-serum, might be supplied as part of the Medical Benefit.—The Medical Benefit Sub-Committee of the Insurance Committee reports that for the month ended March 25, 15,991 prescription-forms were sent in, being 2,454 fewer than the previous month, the average cost being 11.09*d.*, compared with 11.3*d.* The checker, Mr. C. F. Henry, reported that a feature of the month's supply of medicine was the large quantity of cod-liver oil emulsion and of malt and cod-liver oil distributed chiefly in the Canongate, Pleasance, and Grassmarket. By orders from one doctor a firm of chemists supplied to about eighty patients 76 lb. of cod-liver oil emulsion, mostly in 16-oz. bottles, and 74 lb.

of malt extract and cod-liver oil, mostly in 2-lb. jars, to about forty patients. The Clerk was instructed to call the attention of the Panel Committee to this matter and to write to the doctor concerned. The Secretary of the Panel Committee has written withdrawing application for the sum of ½*d.* per insured person for administrative expenses, and also intimating that the Panel Committee adheres to its decision not to contribute to the expense of checking prescriptions. The Secretary of the Pharmaceutical Committee also wrote stating that his committee had no funds to meet expenditure on prescription-checking, and they could not agree to the proposal that the cost should be met jointly by the Insurance Committee, the Panel Committee, and the Pharmaceutical Committee. The Sub-Committee agreed to inform the Insurance Commissioners that the proposed arrangement which they had approved had been rejected by the Panel and Pharmaceutical Committees; and to ask whether the Commissioners had any further proposals to make in connection with future arrangements for checking. It was agreed to allow Mr. Henry to continue the work of checking in the meantime. Another communication from the Secretary of the Pharmaceutical Committee requested that money for the Committee's administrative expenses should be taken from the Drug Fund. Satisfactory explanations were given as to prescribing and dispensing secret formulæ—viz., "ung. lini co." and "elixir antifebrin." It was recommended that deductions made from a chemist's account for dispensing four bottles of "Guycose" be refunded in the special circumstances. The medicine was included in a list of proscribed proprietary medicines, but it was supplied to a tuberculous insured person who was awaiting admission to a sanatorium. A letter from Mr. J. Arnold Tod, chemist, Portobello, making a specific charge of interference with the insured person's free choice of chemist was remitted to a Pharmaceutical Service Sub-Committee for consideration. Consideration was delayed of a memorandum issued by the Scottish Insurance Commissioners on emergency supplies of medicine.

Leith.—Mr. J. Noble presided on May 22 over a fair attendance of members of the local Pharmacists' Association, when the Parliamentary Fund and National Health Insurance matters were the main topics discussed. A lively fifteen minutes ensued in regard to the Parliamentary Fund, for and against being equally strong, and at last it was moved from the chair, and agreed, that the Association leave it to individual members to do as they think fit. The meeting warmed up even more on Insurance topics. Mr. J. R. Hill, resident Secretary in Scotland, gave a full account of the Standing Committee's (Scotland) counter-blast to the letter recently issued by the Scottish Insurance Commissioners to panel doctors. He was cordially thanked for his promptitude; but in the discussion which followed the Standing Committee was subjected to much criticism, as some members considered that Mr. Hill argued the case mainly from the Commissioners' point of view instead of stating the chemists' case. From a business aspect the meeting was a failure, as several men would give no answer to the two questions, "Are you prepared to strike?" and "Would you dispense for doctors if they got the dispensing to do on a capitation basis?" Sympathy was expressed with the Aberdeen and Dundee panel chemists.

WALES.

Glamorganshire.—The County Insurance Committee has instructed the Clerk to send a circular letter to panel doctors calling attention to the occasional inadvertence of prescription-forms of one committee being used for insured persons resident in another Insurance Committee's area.

Newport (Mon.).—The Panel Committee has agreed to the Pharmaceutical Committee being allowed 5*l.* for administrative expenses.

ASSOCIATION AFFAIRS.

Aberdeen.—A special meeting of the Aberdeen Pharmaceutical Association was held in Robert Gordon's Technical College, when the prizes gained by the students at the evening classes in connection with the School of Pharmacy were presented. Mr. John R. Reith (President) was in the chair, and made the presentations. Dr. J. F. Tocher set and examined the papers, his awards being: First Year's Theoretical Chemistry and Physics—(1) A. J. Turner, (2) G. W. McKenzie; Second Year's Theoretical Chemistry—(1) John Swan, (2) C. D. Wilson; Botany (second year)—(1) John Sim, (2) C. D. Wilson; Pharmacy—(1) A. J. Turner, (2) Miss C. J. Alexander; Practical Chemistry—(1) John Swan, (2) John Sim. Mr. John Swan, on behalf of the prize-winners, thanked the Association.

Hammersmith.—A whist-drive under the auspices of the Hammersmith and Shepherd's Bush pharmacists was held in the Conservative Hall, Shepherd's Bush, on May [illegible] Twenty-four hands were played, with a short halt for se[illegible]ing of refreshments after the twelfth game. Mr. W. Shirtliff performed the duties of M.C. The prizes were d[illegible]tributed by Mrs. A. R. Melhuish to the successful co[illegible]petitors as follows: *Ladies*—(1) Mrs. Parkinson, 173 poin[illegible] (2) Mrs. Evans, 172; (3, lowest scorer) Miss Procter, 1[illegible] *Gentlemen*—(1) Mr. Windwood, 174 points; (2) Mr. Ril[illegible] 168; and (3, lowest scorer) Mr. Sturton, 139. Mr. Melhu[illegible] thanked the committee for their excellent arrangements.

Leeds.—The forty-sixth annual meeting of the memb[illegible] of the Leeds Chemists' Association was held at the Gra[illegible] Central Hotel, Leeds, on May 27. The chair was occupi[illegible] by the President (Mr. G. W. Overend). The Hon. Secreta[illegible] (Mr. H. Gilleghan) submitted a report, in which he [illegible]viewed the work of the past session. Mr. H. O. Eat[illegible] (Treasurer) submitted a financial statement, which show[illegible] a balance of 9*l.* 0*s.* 7*d.* The Secretary's report and t[illegible] Treasurer's statement were received and adopted. T[illegible] whole of the officers were re-elected as follows: *Preside*[illegible] Mr. G. W. Overend; *Vice-Presidents*, Messrs. J. H. Beaco[illegible] and R. G. Shaw; *Treasurer*, Mr. H. O. Eaton; *Hon. Sec*[illegible]*tary*, Mr. H. Gilleghan. Mr. F. Midgley (of Kirkst[illegible] Road) and Mr. Lancaster (of the Leeds Dispensary) we[illegible] elected members of the Association.

London.—The annual meeting of the Western Pharm[illegible]cists' Association of London was held at the Restaura[illegible] Frascati, London, W., on May 27, Mr. J. D. Marshall (P[illegible]sident) occupying the chair. The report of the Treasur[illegible] (Mr. H. Raithby Procter) showed a balance in hand of 2[illegible] The meeting voted 5*l.* 5*s.* to the Benevolent Fund a[illegible] 10*l.* 10*s.* to the Pharmaceutical Society's Parliamenta[illegible] Fund, which was stated to amount at present to 80[illegible] while 2,000*l.* is wanted. The Secretaries (Messrs. R. [illegible] Lownsbrough and A. Latreille) reported a successful sessi[illegible] but with a slight fall in membership to 430 (a diminuti[illegible] of nine), and a rather low average attendance at meetin[illegible] of forty-six. Two new members (Messrs. C. Brooks a[illegible] W. E. Shirtliff) were added to the committee, the retiri[illegible] members (Messrs. W. Browne, W. F. Guliver, and A. [illegible] Melhuish) being re-elected. Messrs. J. P. Etherington a[illegible] N. H. Schollar were appointed auditors. The delegat[illegible] appointed to the B.P. Conference at Chester are Mess[illegible] J. D. Marshall, H. R. Procter, W. F. Gulliver, and [illegible] Browne. Votes of thanks were accorded to the Preside[illegible] Secretaries, and Treasurer for their services in the pa[illegible] year. Considerable discussion ensued on a motion by M[illegible] Shirtliff that at least half of the Association's meetings [illegible] held on Thursdays, the early-closing day for the greater pa[illegible] of London. The meeting was favourably inclined to t[illegible] motion, but it was eventually withdrawn in favour of [illegible] resolution asking the committee to deal with the matt[illegible] at its first meeting. The suggestions for pharmaceutic[illegible] organisation in London were outlined by Mr. Edmu[illegible] White, who said that the old London Associations wou[illegible] retain their identity for social and domestic purposes [illegible] district Associations, but all statutory duties would be unde[illegible] taken by Mr. G. A. Tocher as Secretary of the Coun[illegible] Association. The representation suggested for each Distri[illegible] Association on the County Executive is as folows:

	W.	N.	N.E.	E.	S.W.	S.E.	
Approx. number of members of Associations	430	180	75	35	170	150	
Pharmaceutical Committee:—							
District Representatives ...	3	2	1	1	2	2	=11
Corporate Body Representatives	—	1	1	—	1	—	= 3
Suggested constitution of the Executive:—							
Pharmacist members of the Pharmaceutical Committee	3	3	2	1	3	2	=14
10 additional Representatives	2	2	1	1	2	2	=10
Representation of District Associations exclusive of Company representation...	5	4	2	2	4	4	=

No formal resolution was moved, but apparently all prese[illegible] agreed to fall in with the proposals.

London (North).—The annual meeting of the Nor[illegible] London Association was held on Thursday, May 21. T[illegible] following were elected Hon. Presidents on the suggesti[illegible] of the retiring President: Mr. Peter MacEwan, M[illegible] C. A. Hill, Mr. F. W. Fletcher, Mr. W. S. Gly[illegible] Jones, Mr. T. H. W. Idris, and Mr. W. J. Uglo[illegible] Woolcock. By this arrangement the Chairman will hen[illegible] forth become the acting President, and to this position M[illegible] J. Hearle was elected, and Mr. A. W. Bromley as the Vic[illegible] President. Mr. J. Noble, after a few words, vacated t[illegible] chair, and Mr. Hearle was installed, and gave a bri[illegible] address. The following officers were also appointed: *General Secretary*, Mr. Herbert Skinner; *London Sec[illegible]tary*, Mr. Arthur H. Jenkin; *Trade Secretary*, Mr. Hug[illegible]

ff. The six Middlesex members of Committee were srs. McRostie, Roy Dow, Grassick, Webster. Byass-es, and Marshall; for London Messrs. Carter, Bennett, can Bowie, Payne, Withington, and Aukland. The wing were appointed sub-district officers, subject to the roval of the Pharmaceutical Council: Hornsey, Mr. D. erson; Edmonton, Mr. J. T. Davy; Southgate, Mr. S. Addison; Finchley, Mr. C. W. Andrews. Enfield was for the Secretary to visit and arrange. In London—City, Mr. T. Coulson; Islington, Mr. J. Noble; St. cras, Mr. C. W. Matthews; Holborn-Finsbury, Mr. E. Lawson. The annual outing was confirmed for e 25 at Boxhill. Other business included the formation sports section under the leadership of Messrs. Bowie Noble, to meet on Thursday afternoons at Wood n, and it was decided to request the Pharmaceutical cil to arrange a lecture occasionally for Wednesday Thursday evenings during the winter session, so that o retailers might have the opportunity of being present.

ondon (S.W.).—A meeting of the South-West London rmacists' Association was held at Stanley's Restaurant, ., on May 20, the President (Mr. John Keall) in the r. A scheme for the reorganisation of the County cutive was discussed, and adopted with modifications. srs. Keall, Atkin, Mason, Goy, and Bolwell were ap-ted delegates on that committee. The Chairman aled to the members on behalf of the Pharmaceutical liamentary Fund, and it was agreed to authorise the retary to issue a circular asking from members a mini-m subscription of 10*s.* 6*d.* The meeting next con-red certain resolutions submitted by the South-East don Pharmacists' Association in regard to curtailing s of business, sale of proprietaries at cost, and morality ertain advertising, but for various reasons it was deemed isable to take any action. The Assistants to Chemists Druggists (Qualification) Bill was condemned.

alford.—The annual meeting of the Salford Pharmacists' ciation was held on May 14. The President (Mr. J. W. was in the chair, and gave a short *résumé* of the of the past year. He advocated the formation of a ists' trade-union and a National Tariff. The Treasurer his report, which was considered satisfactory. A vote hanks was passed to the retiring office-bearers. The ion of officers resulted as follows: *President*, Mr. J. W. (re-elected); *Treasurer*, Mr. J. H. Harrop; *Secretary*, J. L. Davison; *Council*, Messrs. Bellringer, Cuttiford, s. Lewis, Simmons, and Thompson.

outhend.—A meeting of the South-East Essex Pharma-Association was held on May 25 at Hôtel Victoria, hend-on-Sea, Mr. J. H. Heywood (President) in the r. A lantern-lecture upon the Wellcome Materia Medica was given by Mr. C. Goode, Mr. Godolphin manipu-the lantern. The discussion which followed elicited a niscence from the President, who stated that years ago tient took without ill-effect what should have been an ose of a mixture containing tr. nucis vom. which had dispensed at Mr. Schacht's establishment at Bristol. induced Mr. Schacht to go into the matter of the loidal strengths of tinctures, which he found varied tly, the one in question being almost free from brucine strychnine.

est Bromwich.—The monthly meeting of the West wich Pharmaceutical Association was held on May 26. President (Mr. Kemsey-Bourne) occupied the chair. Treasurer reported that he had received subscriptions e Pharmaceutical Parliamentary Fund, and had for-ed them to headquarters. The chair was now taken he Vice-President (Mr. Withers), who called on Mr. sey-Bourne to open a discussion on dispensing, which much appreciated.

omen Pharmacists.—The Secretary of the Associa-of Women Pharmacists asks us to state that the follow-officers and members of Committee are retiring (by ion): Vice-President, Miss Wardle; Treasurer, Miss uf; Secretary, Miss Hughes; members of Committee, Freke, Miss Mulliner (by resignation), and Miss David-The first four offer themselves for re-election. Nomina-for Committee must be sent to Miss Hughes, Royal Hospital, City Road, London, E.C., not later than 5.—A special meeting, convened for the purpose of ssing *A Suggested Code of Rules* for uniformity in nsing, was held on May 26 at Gordon Hall, Gordon re, Miss Buchanan in the chair. Answers were formu-in reply to the questions sent out by Mr. E. S. Peck, are to form the basis of a communication to the sh Pharmaceutical Conference.

During January the exports of camphor from Japan ted to 158,000 kin, against 269,000 kin in 1913 and 00 kin in 1912.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., May 28, 6.30 p.m.

THE business tone in chemicals and drugs continues much as previously reported, buying being mostly of a hand-to-mouth character. Cod-liver oil continues a rising market, the Finmarken fishing continues extremely poor. Opium is perhaps the turn weaker on the cessation of speculative buying in primary markets; new crop will be later this year. The Sicilian essential oils of lemon, bergamot, and orange are all on the weak side. Camphor is quiet. Cinchona at the London auction brought full prices. Cocaine is the turn harder from makers, who are probably tired of the fierce competition. Cream of tartar is 1*s.* dearer and tartaric acid very firm. Glucose and starches have further advanced. Menthol is cheaper and lacks interest at the moment. Thymol is dearer. Bay-berry-bark is cheaper; belladonna-root is still very scarce; and ergot is firm. The following table shows the more important movements of the week:

Higher	Firmer	Easier	Lower
Cardamoms	Cocaine	Aloes (Cape)	Ammonia sulphate
Cinnamon	Cream-of-tartar	Bergamot oil	Antimony
Cod-liver-oil	Tartaric acid (foreign)	Coriander seed	Bay berry-bark
Glucose		Orange oil	Lemon oil
Gum acacia		Serpentary	Menthol
Sarsaparilla (grey Jam.)		Wahoo bark	Sarsaparilla (Lima)
Starches		Wax, bees' (Jam.)	
Stillingia			
Thymol			
Tragacanth (fine)			

Cablegrams

Bergen, May 28.—The cod-fishing at Finmarken continues poor and uneven. Market is still rising, and holders of the finest new non-congealing Lofoten medicinal oil ask 75*s.* 6*d.* per barrel, c.i.f. terms.

New York, May 28.—Business in drugs is quiet. Opium is firmer at $6.80. Peppermint oil in tins is steady at $4.25. Mexican sarsaparilla is easier at 35c. Guarana is lower at $1.95. Menthol is easier at $3.5. Short buchu is dearer at $1.50, and long is also dearer at $1.30.

London Markets.

American Drugs.—The following are current quotations for original packages of herbs, leaves, roots, etc., for shipment from the U.S.A. on c.i.f. terms, unless otherwise indicated: *Barks*—Bayberry, 35*s.* per cwt.; black haw of root, 8*d.* per lb.; dogwood, 4½*d.*; elm, 5¾*d.*; euonymus, 1*s.* 3*d.*; sassafras, 7*d.*; wild cherry, 4*d.* net, to arrive; witch-hazel, 2¾*d.* to 3*d.* per lb. *Herbs*—Lobelia, 4½*d.*; scullcap, 9*d.* *Leaves*—Damiana, 6½*d.*; witch-hazel, 3½*d.* *Roots*—Blue flag, 7½*d.*; burdock, 4¾*d.*; elecampane, 4¼*d.*; gelsemium, 3½*d.*; leptandra, 6½*d.*; blood-root, 6¼*d.*; serpentary, 1*s.* 9*d.*; and stillingia, 4*d.* per lb.

Anise Oil (Star).—The usual "Red Ship" brand is offered at 5*s.* 6*d.* on spot, and at 4*s.* 6*d.* c.i.f. for May-July shipment. Five cases with a congealing point of 14.4° sold without reserve at from 4*s.* 6*d.* to 4*s.* 8*d.* per lb.

Antimony is lower, with Chinese crude offering near at hand at 10*l.* 7*s.* 6*d.*, and July-August at 10*l.* 15*s.* net c.i.f. English regulus is quoted at 26*l.* 15*s.* to 27*l.* 15*s.*, and Chinese on spot at 22*l.* 10*s.*

Balsam Canada is quoted in cases in tins at 6*s.* net.

Belladonna-root still very scarce and nominally worth from 55*s.* to 60*s.* per cwt.

Bergamot Oil.—Primary markets are practically unaltered, with a very light demand. Generally speaking, the position is weak.

Camphor (Refined).—Japanese is quiet, with slabs offering at 1*s.* 7½*d.*, 1-oz. tablets at 1*s.* 8*d.*, and ¼-oz. at 1*s.* 8½*d.*; to arrive December-January shipment of slabs are offered at 1*s.* 7*d.* c.i.f. In the drug-auction eighteen cases of Japanese 2½-lb. slabs were held at 1*s.* 7½*d.* per lb.

Cascara Sagrada.—Between 5 and 10 tons have been sold on the spot; values are from 36*s.* to 37*s.* per cwt., and to arrive new crop is quoted 35*s.* c.i.f.

Chillies.—Japanese are quoted at from 60*s.* to 65*s.*, Mombasa at 52*s.*, and Zanzibar at 50*s.* per cwt.

Cinchona.—At auction on Tuesday 540 packages were offered, of which the bulk sold at fully previous prices, the average unit being 1½*d.* Of East Indian, 357 packages offered and 305 sold, comprising natural stem Succirubra chips at 4½*d.* to 5½*d.*; officinalis mossy quills 6⅝*d.* to 6⅞*d.*, thin broken 4⅜*d.*; spoke shavings 4⅞*d.*, quilly chips 4⅞*d.* to 5*d.*, renewed ditto 4⅞*d.* to 5*d.*, root 4⅛*d.*; 16 packages Java offered and sold at 4⅞*d.* for red chips, and of Java 46 cases offered and 12 sold at 5*d.* for broken silvery quill.

Cinnamon.—At the usual quarterly sales, which were held last Monday, 223 bales were offered, 31 worked and 192 unworked. The small supply of worked met with keen competition, and all sold at an advance over prices paid three months ago of 4*d.* per lb. for firsts, 5*d.* for seconds, 3*d.* for thirds, and 1*d.* for fourths. Fine firsts and seconds sold at 2*s.* 1*d.*, good to fine thirds at 1*s.* 8*d.* to 1*s.* 9*d.*, and common to good fourths at 1*s.* 1*d.* to 1*s.* 4*d.* per lb. Pieces and broken brought 8*d.* per lb. There was no demand for the unworked kinds, and, although offered at last sales' rates, these were all withdrawn at 1*s.* 3*d.* per lb. for firsts, 1*s.* 2*d.* for seconds, 1*s.* 1*d.* for thirds, and 1*s.* for fourths.

Citric Acid remains very firm and scarce at 2*s.* 5*d.* per lb.

Citronella Oil.—Ceylon on the spot is obtainable at from 1*s.* 5½*d.* to 1*s.* 6½*d.* per lb.

Cloves.—Zanzibar are quiet and easier, with spot offering at 5¾*d.* Sellers of June-August delivery quote 5⅝*d.*, being unaltered, and to arrive May-July is quoted 5 9/16*d.* c.i.f.

Cocaine is the turn harder among makers, who call the lowest price of hydrochloride for 175-oz. lots on contracts 4*s.* 2*d.* per oz.

Cod-liver Oil continues its upward movement on further pessimistic reports regarding the Finmarken catch. Prices vary from 72*s.* 6*d.* to 74*s.* c.i.f. for finest brands of new Lofoten oil.

Our Bergen correspondent writes on May 25 that the Finmarken season continues poor. The fishing is being constantly interrupted by stormy weather, and is of a thoroughly irregular character this year. Still the bulk of the fishermen keep the fishing going, but if we do not quickly see an improvement in the catch it is anticipated that many of the boats will return homewards at Whitsuntide. The official report of all our cod-fisheries to May 23 gives the following results:

	1912	1913	1914
Catch of cod (millions) ...	87.3	62.0	68.6
Yield of c.l.o. (hect.) ...	65,400	33,600	50,600
Yield of liver for raw oils (hect.)	25,200	8,050	9,350

The market tendency is very firm, and prices rising almost every day. Prime non-congealing 1914 oil cannot be quoted below 73*s.* 6*d.* per barrel c.i.f., and most holders are unwilling to sell below 73*s.* to 75*s.*

According to cabled statistics received from Norway on May 25, the catch, the quantity of liver set aside for natural oils, and the output of cod-liver oil up to May 23 was as follows:

	Catch of cod	Livers for raw oil (hect.)	Yield c.l.o (hect
Finmarken, 1914	... 10,704,000	... 1,451	... 7,779
do. 1913	... 20,884,000	... 2,066	... 13,041
Whole country, 1914	... 68,600,000	... 9,351	... 50,634
do. 1913	... 62,100,000	... 8,057	... 38,573

The market since our last report has shown no s of any material alteration, and the deficiency of c 5,000 hectolitres of cod-liver oil in the Finmarken dist still continues. The price of 72*s.* 6*d.* per barrel c London is only nominal, and any offers would have to cabled to Norway for acceptance. [The foregoing is f the weekly report of Messrs. Freudentheil & Co.]

Coriander-seed is easier at 15*s.* to 15*s.* 6*d.* per cwt. sound Morocco.

Cream of Tartar is 1*s.* per cwt. dearer at 97*s.* to for 98 per cent. and 95*s.* to 96*s.* for 95 per cent.

Cumin-seed is firm, 28*s.* per cwt. having been paid slightly wormy Morocco.

Galls.—Chinese are quoted at 55*s.* 6*d.* per cwt. c.i.f

Geranium Oil.—Bourbon is offered at the cheaper p of 10*s.* 4*d.* net c.i.f. to arrive. The weak position appe to be due to speculative operations.

Glucose has further advanced to 12*s.* to 12*s.* 3*d.* per c for liquid, according to quantity. Pearl and powde starches are also dearer at 11*s.*

Hydrastis is quoted at 20*s.* per lb. c.i.f. to arrive.

Lemongrass Oil.—Quiet, the spot values being fr 2¾*d.* to 3*d.* per oz.

Lemon-juice.—English raw remains in good dema offering at 1*s.* 10*d.* per gal. upwards.

Lemon Oil.—Last week's quotations may be eased b further 3*d.* per lb., June-July shipment offering at 6*s.* 6*s.* 4*d.* c.i.f., and others 6*s.* 9*d.* c.i.f.; on the spot, val are from 6*s.* 3*d.* to 6*s.* 6*d.*

A Sicilian report, dated May 23, states: "Once m we have to report an entire absence of life in our lo market, there being no business of any importance throu out the whole of the past week. The offerings of nee growers and holders have been in excess of what few sm requirements there were to cover, and so prices ha descended still further, without, however, leading to fr transactions."

Lime-juice is unaltered, good pale raw Jamaica offeri at 1*s.* 9*d.* per gal.

Menthol is dull and again lower, Kobayashi offering the spot at 10*s.* to 10*s.* 3*d.* per lb. from dealers' hand to arrive, 9*s.* 6*d.* c.i.f. is quoted for this brand near hand in five- or ten-case lots.

The exports of menthol from Japan during Mar amounted to 42,079 kin, valued at 290,063 yen, and for t three months ended March 31 the figures are as follows:

	1912	1913	1914
Kin	50,957	84,836	124 304
Yen	542,386	1.149.822	884,401

The destinations for the three months (January-Marc were as follows:

	1912 Kin	1913 Kin	1914 Kin
British India ...	2,325	2,970	5,683
Great Britain ...	13,998	29 120	32,553
France	3 150	10,583	5,316
Germany	17.725	26.042	44,321
United States ...	13.316	11,533	32 129
Other countries ...	443	4,588	4,302
Kin	50,957	84,836	124.304
Yen	542,386	1,149.822	884,401
= Cases ...	1,132	1,885	2,702

The exports of *mint oil* from Japan during March we 49,522 kin, valued at 157,832 yen, and for the three mont (January-March) the figures are as follows:

	1912	1913	1914
Kin	68,189	120.675	129 377
Yen	242,225	481,719	393,175
= Cases	1,515	2,682	2,875

The above are the official figures, and show a total 5,637 for both menthol and oil, as compared with th unofficial estimate of 5,626 cases published in our issue April 11.

MILK-SUGAR.—Agents quote 59*s.* 6*d.* for finest B.P. powder in half-ton lots.

MINT OIL remains quiet, with May-June shipment offering at 4*s.* c.i.f. The spot values are from 4*s.* to 4*s.* 2*d.* American tin oil is unaltered at 17*s.* 6*d.*, and H.G.H. is 2[illegible]

MORPHINE.—Makers maintain their previous quotation of 8*s.* 6*l.* for hydrochloride powder, but would doubtless certain 8*s.* 3*d.* for later delivery.

NEROLI OIL will in all probability be dearer, and 14*s.* per oz. is talked of as likely to be the quotation ere long.

OPIUM.—Practically all the recent business was on native speculators' accounts at primary sources, consumers holding off, and at the moment the tone is perhaps not quite firm as last week, owing to the cessation of operations. Sellers ask 15*s.* 6*d.* per lb. c.i.f. for 12-per-cent. test, and on the spot good Turkey druggists' quality is quoted 16*s.* 6*d.* It is anticipated that the crop will be two or three weeks later this year owing to the prevalence of cold unseasonable weather earlier in the season, but in about a month from now supplies should be reaching the Smyrna market from the Interior. Persian is still quoted at from 17*s.* to 21*s.* as to test.

ORANGE OIL.—An advice from Sicily reports extreme quietness and a slight reduction in values; 7*s.* 8*d.* to 7*s.* 11*d.* c.i.f. is quoted for sweet.

ORRIS still remains scarce and dear, with ordinary Florentine sorts offering at 69*s.* and best at 71*s.*; spot prices are 71*s.* and 74*s.* respectively.

PODOPHYLLUM-ROOT is offered at 53*s.* 6*d.* c.i.f. to arrive.

POTASSIUM IODIDE.—The exports from Japan during March were 9,818 kin, valued at 65,242 yen, and for the three months ended March 31 the figures were as follows:

	1912	1913	1914
Kin	18,045	19,776	22,223
Yen	80,842	116,027	147,552

Crude iodine the exports during March were 1,559 kin, valued at 8,770 yen. For the three months ended March 1914 they were 8,377 kin (47,279 yen), against 4,820 kin (29,944 yen) in 1913 and 5,427 kin (25,673 yen) in 1912.

QUICKSILVER.—A firm market at 7*l.* from first-hands, and 6*l.* 17*s.* 6*d.* from second-hands.

QUININE.—Further sales of the usual brands of German sulphate are reported from second-hands at 1*s.* 0½*d.*, the quotations being from 1*s.* 0½*d.* to 1*s.* 0½*d.*, makers quoting 1*s.* 1*d.* A sale of 10,000 oz. Zimmer's has been made at 1*s.* 1*d.* The question of an advance in makers' prices is likely to be considered after the next Amsterdam bark-auction on June 11.

The exports of "quinine, quinine salts and combinations" from Germany during the three months ended March were as follows:

	1912	1913	1914
Kilos. ...	58,900	65,400	52,300
Marks ...	1,396,000	1,609,000	1,778,000

SANDALWOOD OIL remains firm, but the very high prices ruling have considerably curtailed the demand of late. English drawn from E.I. wood is quoted at from 22*s.* to 23*s.* per lb. by distillers. It is stated that benzyl alcohol is being used as the latest adulterant, and that a fair quantity of oil containing this aromatic substance is offered on the market.

SENEGA is quoted at 2*s.* 8*d.* per lb. c.i.f. to arrive.

SHELLAC is steady, with TN Orange quality offering at 65*s.* on spot, and AC Garnet at 66*s.* Market for good to fine Orange remains quiet at 72*s.* 6*d.* to 90*s.*, according to quality. Sales for delivery include August at 65*s.* to 65*s.* 6*d.*, December at 67*s.* to 68*s.*

SOY.—Good Chinese is offered at from 1*s.* 3½*d.* to 1*s.* 4*d.* per gal.

SPERMACETI.—American refined is offered at 10½*d.* per lb. ex warehouse.

TARTARIC ACID is very firm at 1*s.* 1½*d.* for English, and 1*s.* 0⅞*d.* for foreign.

THYMOL.—Some makers are asking 7*s.* 6*d.*, a considerable advance on our previous quotation.

TRAGACANTH.—Fine white druggists' flake is practically unobtainable on spot, and the value of good is 24*l.* per cwt.

TURPENTINE has fluctuated considerably during the week, closing about 1*s.* cheaper on balance at 32*s.* 6*d.* for American on spot.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, May 28, 1914.

A fair quantity of first and second hand goods offered to-day, for which there was a moderate demand, which towards the end of the proceedings dragged somewhat. Cape aloes declined about 1*s.* per cwt. for the middling and common grades, while firsts were held above buyers' ideas. Anise and cassia oils sold cheaply without reserve. Buchu is firmly held, with small sales in auction, and for Sumatra benzoin steady prices were paid. Cardamoms met with a better sale at an advance of from 2*d.* to 3*d.*, while seed was firm. Cascarilla is still held for very high prices, with small sales thereat. Calumba sold steadily for sorts, and coloeynth sold rather cheaply as compared with private prices. Gambogo is steady, and for Jamaica honey, which was in good general demand, prices were irregular, fine and common qualities being steady, and medium grades easier. Ipecacuanha is steady, but very quiet in view of arrivals. Myrrh is dull and unaltered. Hand-pressed lime oil was fairly cheap, but the distilled is very firmly held. Grey Jamaica sarsaparilla was 1*d.* to 2*d.* dearer, native Jamaica being full up, but for Lima small sales were made at 1*d.* decline. Unimportant offerings of Tinnevelly senna brought unaltered rates, and Alexandrian leaf and pods failed to sell. Beeswax was in good demand for East African, which brought full prices, but Jamaica tended about 2*s.* 6*d.* in buyers' favour. The following table shows the quantity of goods offered and sold:

	Offered	Sold
Aconite (Jap.)	10 ...	0
Ajowan-seed.....	90 ...	0
Aloes—Cape.....	106 ...	25
Socotrine	25 ...	0
Zanzibar ... (es.)	23 ...	0
Anise oil (star).....	5 ...	5
Balsam tolu	8 ...	0
Bay oil	2 ...	0
Benzoin—		
Palembang	15 ...	0
Siam	4 ...	0
Sumatra.....	106 ...	16
Buchu.....	23 ...	2
Calumba	205 ...	125
Camphor	28 ...	0
Cannabis indica ...	10 ...	0
Cardamoms & seed	268 ...	108
Cascarilla	32 ...	4
Cashew-nuts.....	17 ...	0
Cassia fistula	23 ...	0
Cassia oil	5 ...	5
Chiretta	70 ...	0
Coca-leaves	39 ...	0
Colocynth...	13 ...	5
Cubebs	32 ...	0
Cuttlefish-bone ...	50 ...	0
Dragon's-blood.....	34 ...	2
Elemi	20 ...	0
Ergot	19 ...	0
Fennel-seed	152 ...	0
Fenugreek-seed ...	11 ...	11
Gamboge	14 ...	1
Guaiacum	27 ...	0
Gum acacia	101 ...	0
Gurjun balsam ...	20 ...	0
Honey—		
Cuban.....	40 ...	12
Honolulu	131 ...	131
Jamaica.....	422 ...	249
St. Lucia	5 ...	0
San Domingo ...	6 ...	0
West Indian ...	13 ...	13
Jalap	44 ...	0
Kamala	9 ...	0

	Offered	Sold
Ipecacuanha—		
Cartagena.....	13 ...	0
Matto Grosso ...	8 ...	1
Minas.....	5 ...	0
Kola	2 ...	2
Lime-juice.....	29 ...	0
Lime oil	15 ...	5
Liquorice-root.....	29 ...	
Myrrh.....	68 ...	0
Olibanum	38 ...	0
Orange oil.....	4 ...	0
Orange-peel	6 ...	0
Orchella-weed	86 ...	0
Orris (Mog.).....	10 ...	0
Papain	4 ...	0
Pareira brava	22 ...	0
Quassia-chips	80 ...	0
Quince-seed	8 ...	1
Rhubarb—		
China	47 ...	5
Ch. Rhap.	10 ...	0
Sarsaparilla—		
Grey Jam.....	9 ...	9
Lima-Jam.	27 ...	2
Native Jam.....	7 ...	7
Scammony-root ...	78 ...	0
Seedlac	75 ...	0
Senna and pods—		
Alex.	30 ...	0
Tinnevelly	67 ...	49
Squill	18 ...	7
Strophanthus	4 ...	0
Tamarinds (W.I.)	12 ...	0
Tonka-beans	11 ...	3
Tragacanth	27 ...	27
Turmeric	171 ...	26
Wax (bees')—		
Chinese	7 ...	0
East African.....	169 ...	169
East Indian	32 ...	0
Jamaica.....	8 ...	8
Madagascar	15 ...	0
Morocco	4 ...	0
Wax. (Japan)	3 ...	3

ALOES.—Cape of good firsts quality was held at 40*s.*, but buyers failed to respond, only fair and common grades selling at easier rates, including Mossel Bay (usual 20-per-cent. tares) fair hard bright firsts at 36*s.* 6*d.*; fair seconds, part soft, 36*s.*; half livery, half dull, 35*s.*; fair, part cindery, 34*s.*; soft drossy seconds, 31*s.*; and common dull, 27*s.* 6*d.* per cwt.

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The exports from the Union of South Africa during March amounted to 96,681 lb. (1,157*l.*), against 29,521 lb. (332*l.*) in March 1913; for the three months ended March 31 the exports were 245,701 lb (2,799*l.*), against 115,431 lb. (1,317*l.*) for the corresponding quarter of 1913.

Balsam Tolu.—Eight cases of fair flavour, slightly drossy, were limited at 2*s.* 2*d.* per lb.

Benzoin.—Quiet. Nine cases of fair Sumatra seconds with small almonds sold at 7*l.* 15*s.*, and a case of country cut went at 7*l.* Three cases of middling seconds with brown sides and partly country cut sold without reserve at 6*l.* 17*s.* 6*d.*, and for four cases similar quality 6*l.* 10*s.* was paid. Good fair seconds were bought in at 8*l.* 5*s.* per cwt. Ordinary Palembang thirds to fair seconds were bought in at from 55*s.* to 65*s.* per cwt.

Buchu is very firmly held. A small sale of round leaf had been made privately, and for a further bale 5*s.* 2*d.* was paid for good round green, slightly stalky. Oval leaf was held at 2*s.* 2*d.* for fair, and a bid of 2*s.* 1*d.* was refused. Longs were taken out at 4*s.* 2*d.*

The exports from the Union of South Africa during March amounted to 35,247 lb. (6,698*l.*), against 18,308 lb. (4,198*l.*) in March 1913. For the quarter ended March 31 the exports were 74,342 lb. (14,561*l.*), against 72,790 lb. (16,530*l.*) for the corresponding quarter of 1913.

Calumba was steady, a parcel of 125 bags selling at 15*s.* for ordinary small to bold natural, part slightly wormy, sorts.

Cardamoms were in better demand at prices advanced from 2*d.* to 3*d.* per lb. and occasionally more. *Seed* was firm. The following prices were paid: Ceylon-Mysore, extra bold pale long, 5*s.* 11*d.* to 6*s.*; good bold pale, 5*s.* 1*d.* to 5*s.* 4*d.*; medium to bold ditto, 4*s.* 8*d.* to 4*s.* 11*d.*; small and medium, 4*s.* to 4*s.* 1*d.*; fine bold pale splits, 4*s.* 5*d.*; small to medium, 3*s.* 5*d.*; fair small, 3*s.* to 3*s.* 1*d.*; ordinary to fair brown and split and pickings, 3*s.* 2*d.* to 3*s.* 4*d.*; seed, 4*s.* 3*d.*; shells, 1*s.* 4*d.* Mangalore, bold brownish round, 4*s.* 7*d.*; medium ditto, 4*s.* 6*d.*; small, 4*s.* 6*d.*; tiny round, 3*s.* 7*d.*; rough mixed, 3*s.* 4*d.*; lean brown, 3*s.* 2*d.*; fair seed, 3*s.* 11*d.* to 4*s.* Indian, long palish, 4*s.* 3*d.*; brown split and pickings, 2*s.* 7*d.* to 2*s.* 9*d.*; seed, 4*s.*

The exports from Ceylon from January 1 to May 4, 1914, were 156,396 lb., or 23,000 lb. less than the corresponding period of 1913. The U.K. receipts increased from 71,578 lb. to 85,485 lb., and those for Germany declined from 39,918 lb. to 24,549 lb., as also did those of the U.S.A. from 26,391 lb. to 20,806 lb. India appears to be out of the market, her imports from Ceylon up to the above date being only 5,408 lb., against 15,066 lb.

Cascarilla is maintained at very high prices, although in fairly plentiful supply. The chief sale was three bales of small lean and twiggy bark, for which 75*s.* was paid. A single bale of fair quill, but badly country damaged, brought the high price of 86*s.* per cwt.

Cassia Fistula is firmly held, 23 baskets of fair lean Java being limited at 22*s.* 6*d.* per cwt.

Cassia Oil.—Five cases of oil containing 81-per-cent. cinnamic aldehyde sold without reserve at from 2*s.* 10*d.* to 2*s.* 11*d.* per lb.

Colocynth.—Five cases of small to bold, slightly broken pale Turkey apple sold without reserve at from 5½*d.* to 6*d.* per lb.

Dragon's-blood.—A pile of 26 cases was catalogued, but as the same is to be picked over in London, it will be offered on the next occasion. Part is of fine reboiled quality, and there are about a dozen cases of native pickings from the reboiled. Two cases of ordinary dull seedy pickings sold at 6*l.* 5*s.* per cwt.

Fenugreek-seed.—Eleven bags of fair East Indian sold at 3*s.* 6*d.* per cwt.

Gamboge.—Steady, a single case of Siam pipe of good orange fracture and slightly blocky selling at 13*l.* per cwt.

Honey sold at irregular rates, medium Jamaica qualities being easier, but fine and common grades were steady. *Liquid*—Superior amber sold at 32*s.* 6*d.*; good to fine pale amber, 27*s.* to 30*s.* 6*d.*; good ditto, 25*s.* to 25*s.* 6*d.*; good fair ditto, 22*s.* 6*d.* to 24*s.* 6*d.*; dark to fair brown liquid, 18*s.* 6*d.* to 21*s.* 6*d.*; common black liquid, 17*s.* 6*d.* *Set*—Palish, 25*s.*; light brown pasty set, 22*s.* to 23*s.* middling amber set and setting, 21*s.* Of Cuban, eig casks palish set sold at 23*s.*, and four casks dark brov liquid went at 17*s.* A parcel of 131 cases from New Yo (probably Honolulu) sold at from 18*s.* to 18*s.* 6*d.* for pali set part sugary, and at from 15*s.* to 15*s.* 6*d.* for comm brown fermenting. Privately, fine water-white Californi is offered at 42*s.* to 42*s.* 6*d.* c.i.f., and amber at 35*s.* c.i

Ipecacuanha.—Quiet but steady, a single bale of d grey Matto Grosso selling at 8*s.* 3*d.* For Minas, of whi five bales offered, a bid of 7*s.* 10*d.* was refused, t retiring price being 8*s.* 3*d.*, and for Cartagena, of whi 13 bags were offered, 7*s.* was wanted. The *Laomed* has brought 44 packages East Indian, and 30 bales Mat Grosso have arrived from Monte Video.

Kola.—A single bag of fair dried West Indian sold 3¼*d.*, and for a further bag of dullish mouldy nuts 2¼ was paid.

Lime Oil.—Five cases of St. Lucia hand-pressed so at 8*s.* 6*d.*, and for ten cases of Jamaica distilled a bid 2*s.* 11*d.* was refused, the value being 3*s.*

Myrrh.—Nothing sold in auction, and the value pr vately of fair Aden sorts is 52*s.* 6*d.*

Orange-peel is held for very high prices, 1*s.* 9*d.* bei wanted for good bright Tripoli strip, and a bid of 1*s.* 7 was refused.

Quince-seed was in more plentiful supply, a bag selli at 2*s.* for fair Cape.

Rhubarb.—Quiet but steady. A case of small rou and trimming high-dried Shensi with three-quarters pinl fracture sold at 4*s.*, and the same price was paid for tv cases of bold flat orange-coated Shensi, with thre quarters fine pinky fracture, being cheap. Two cases medium flat High-dried with three-quarters pinky fractu sold at 1*s.* After the auction small sales of Canton we made at 3*s.* 6*d.*

Sarsaparilla.—Grey Jamaica was from 1*d.* to 2*d.* p lb. dearer, nine bales selling at from 1*s.* 9*d.* to 1*s.* 10 for fair to good grey fibrous, 1*s.* 7*d.* for part dark an coarse, and 1*s.* 2*d.* for rough part chumpy. Nati Jamaica was firm, seven bales realising 1*s.* 3*d.* for pa dullish red and 1*s.* 1*d.* to 1*s.* 2*d.* for bright red mixe with yellow. Lima was slow of sale and easier, sixte bales being offered and one selling at 1*s.* 5*d.* for goo rolled. Mexican is quoted at 1*s.* 5*d.* per lb. ex warehou to arrive.

Scammony-root.—For 78 bales of Levant 26*s.* w wanted.

Senna sold at unaltered rates for the small suppl offered, comprising inferior yellow leaf at 1½*d.*, an common to ordinary small 1½*d.* to 1¾*d.*; fair small medium greenish, 2½*d.* to 2½*d.*, and good bold green (o bale) 4½*d.* *Pods* sold at 1½*d.* to 1½*d.* for very dark fair. Darkish Mecca pods were taken out at 4*d.* to 6d and for fair palish Alexandrian 1*s.* 5*d.* was wanted, t value of siftings being 5*d.* per lb.

Squills.—For good creamy 22*s.* 6*d.* per cwt. was wante gross for net, no discount, and for 7 bales of comm brown 1*d.* per lb. subject was paid.

Tamarinds.—For 12 bags of fair bright Nevis a b of 13*s.* 6*d.* was refused, the owner requiring 14*s.*

Tonka Beans sold at low prices, 2 cases of most fair frosted but damp Para selling without reserve 1*s.* 7*d.*, and a single case went at 1*s.* 4*d.* for ordinary.

Turmeric.—A lot of 26 bags fair bright coloury Madr finger sold at 15*s.* per cwt., being cheap.

Wax (Bees') was in good demand, the chief sa consisting of 169 packages East African, which brougt good prices. Mozambique small clean ball sold 7*l.* 17*s.* 6*d.*, fair block 7*l.* 10*s.*, drossy slabs 7*l.* 5*s.*, an fair rolls and ball 6*l.* 15*s.* to 6*l.* 17*s.* 6*d.*; very dark to fa crumby ball 6*l.* 10*s.* to 6*l.* 15*s.* Jamaica showed a slightl easier tendency, nine packages realising from 8*l.* 17*s.* 6 to 9*l.* for brown to fair red and brown mixed. In Live pool, Gambia is steady at 8*l.* 10*s.* per cwt.

Wax, Japanese.—Three cases of sea-damaged tiles sol without reserve at 43*s.* per cwt.

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Manchester Chemical Market.

May 26.

While it cannot be said that there has been much change heavy chemicals during the past week, we may look ward to a very quiet period at Whitsuntide in all depart-nts. It is predicted that there will be a cessation of rk in spinning and cloth production in Lancashire, at events to the extent of 80 per cent. during the week. da-ash, bleaching-powder, etc., show little change. Arsenic quiet. Sulphate of copper has still a sagging tendency, d general quotations are 21*l.* 17*s.* 6*d.* to 22*l.* per ton, livered Manchester, with 2*s.* 6*d.* lower asked for June livery. Refined sulphur quiet at 5*l.* 15*s.* for flowers d 5*l.* 17*s.* per ton for roll c.i.f. terms. There is a very iet demand in coal-tar products. Sulphate of ammonia y be quoted at from 11*l.* 3*s.* 9*d.* to 11*l.* 5*s.* per ton f.o.r. nchester

Heavy Chemicals.

The heavy-chemical market maintains a steady tone, and main features at present are a fairly good demand on ompt account, but comparatively small inquiry for for-rd. Values are for the most part unchanged and steady.

SULPHATE OF AMMONIA has declined considerably, and the e is decidedly weak, with tendency towards further cline. Stocks perhaps are not very heavy, but orders are y few. Present nearest figures: London, 25-per-cent., 7*s.* 6*d.*; Leith, 11*l.* 7*s.* 6*d.*; Liverpool, 11*l.* 3*s.* 9*d.* to 5*s.*; Hull, 11*l.* 3*s.* 9*d.*

ALKALI-PRODUCE.—Bleaching-powder has been in somewhat tter request, and remains at 5*l.* 2*s.* 6*d.* to 5*l.* 15*s.* per ton, cording to conditions. Caustic soda in heavier demand at altered rates; home trade, 70-per-cent., 9*l.* 7*s.* 6*d.* to 12*s.* 6*d.*, and 60-per-cent., 8*l.* 7*s.* 6*d.* to 8*l.* 12*s.* 6*d.*; port, 76-per-cent., 8*l.* 15*s.* to 10*l.*, 70-per-cent., 8*l.* to 9*l.* 5*s.*, d 60 per cent., 7*l.* to 8*l.* 5*s.* per ton, according to destina-n. Ammonia alkali continues to move well, and is steady 2*l.* 17*s.* 6*d.* to 3*l.* 10*s.* per ton, free on rails. Soda-crystals fair demand at 42*s.* 6*d.* to 45*s.* per ton, in bags, free on ils. Yellow prussiate of potash in fair request at 5½*d.* 6*d.*, and soda at 3¾*d.* to 4*d.* Chlorates of potash and la, 3½*d.* to 4*d.* Bicarbonate of soda in average demand at to 5*l.* 10*s.* Hyposulphite of soda is moving somewhat tter; ordinary crystals, in casks, 5*l.* 7*s.* 6*d.* to 5*l.* 17*s.* 6*d.* ton; deliveries in 1-cwt. kegs vary from 5*l.* 17*s.* 6*d.* to per ton, according to quality, quantity, and destination. icates of soda are steady at unchanged rates, and in good uest both for home and export; 140° Tw., 4*l.* 12*s.* 6*d.* to 2*s.* 6*d.*; 100° Tw., 4*l.* 2*s.* 6*d.* to 4*l.* 12*s.* 6*d.*; and Tw., 3*l.* 12*s.* 6*d.* to 4*l.* 2*s.* 6*d.* per ton, according to ality, quantity, and destination.

Continental Drug and Chemical Markets.

AMMON. CHLOR.—There are a few low offers in the market, ich, however, are not to be ascribed to a general reduc-n, but rather to larger stocks which have to be disposed

CITRIC ACID.—The upward movement continued; for May livery m.485 has been paid, and m.475 for June-July; ly-December delivery is still offered at m.465.

ELEMI.—Owing to the strong demand, spot of extra fine ality is somewhat scarce, but new supplies will be obtain-le in a few weeks. Importers are holding back on account the unprofitable prices, and are awaiting more favourable ices.

ERGOT.—The upward movement continues; for spot (Ham-rg) m.370 and for delivery m.360 per 100 kilos. has already en paid. The Russian crop is expected to be very small d unimportant, owing to the prevailing heat and drought. ain is still offering old crop cheaply at m.450 per 100 los.

ETHER (SULPHURIC).—There is an over-production, so that is difficult to effect sales. In spite of this, however, it reported that the Convention has been prolonged until out the middle of 1918.

GLYCERIN.—The first week of May passed practically thout any business. The large purchase of crude (about 00 tons, it is said) by an English firm from a speculative oup, who were much in prominence some time ago, is ch discussed. The few contracts closed, in addition to s on the Continental market, were made at the following ices: Saponification, spot, fr.165; delivery over the cur-t year, fr.167.50; next year, fr.160; 80-per-cent. crude, livered over the current year, fr.137.50, 1915 delivery, 135 per 100 kilos., unpacked.

QUILLAIA.—A strong upward movement has set in, occa-ned by a greater demand from consumers and no offers m Chile. Whole for shipment has been sold at up to 72.50, and spot (Hamburg) at m.76 per 100 kilos. Further ers for shipment are wanting.

RICE-STARCH.—In consequence of the severe competition and in order to meet that of "outsiders," the German Rice-starch Selling Office have reduced their prices for well-known brands by m.1 and for Germania rice-starch by m.3 per 100 kilos.

TARTARIC ACID.—The considerable scarcity of citric has created an active demand for tartaric, and the market is very firm, and the factory prices have already increased by about m.10 per 100 kilos. A further increase is looked upon as certain, in view of the approaching principal consuming season.

WHEAT-STARCH.—In consequence of a continued firmer tendency on the European and American wheat-markets, a considerable firmness for wheat-starch and powder is already becoming evident. Prices have also improved slightly, while the factories anticipate a further increase shortly.

WHITE-LEAD.—After a temporary reduction, the White-lead Syndicate in Cologne has again increased the price of white-lead by m.1 per 100 kilos., and further increases are expected.

Petroleum.

There has recently been a slight reduction in the price of petroleum by ¼*d.* per gal., and the market generally is weak and depressed, with the range of prices below those of the corresponding period of last year. Buyers are evidently confining their wants to current requirements. Business in lubricating-oils is likewise depressed, the pressure to sell on the part of some of the largest importers having disorganised the market both for American and Russian oils. It is interesting to note (says "The Grocer") that the remarkably large output of petroleum oil in the United States within recent years was more than maintained during 1913, when production beat all previous records. In spite of the large increase in the output, stocks did not receive much addition, as consumption continued on a satisfactory scale. A feature in the exports of petroleum and its products from the U.S.A. is the increased values, apart from the growth of exports. Illuminating-oils, which constitute about one-half of the total petroleum exports from the other side, continue to be sent away in increasing quantities. Consumption is still showing progress, and it is recognised in the United States that the illuminating-oil industry must look to the broadening, or at least the maintenance, of the foreign fields for this description, which has become more or less of a by-product in the refinement of crude for the more keenly sought derivatives, since the possibilities of further expansion in the domestic consumption of the illuminant are somewhat remote.

POISONING FATALITIES.

EIGHT deaths due to the administration of poisons have been chronicled this week.

Arsenic.—"Suicide while temporarily insane" was the verdict at the adjourned inquest on Clara Ann Kistle, widow, Princetown, who died from arsenical-poisoning. A packet labelled "Arsenic" and bearing the name of Messrs. H. T. Doble & Son, Tavistock, was found in deceased's home; but it was stated that Messrs. Doble had not sold arsenic to anyone living at Princetown since August 2, 1912, and then it was to someone else.—James Rigg, farm-bailiff, Chobham, died from misadventure owing to drinking some arsenical weed-killer.

Carbolic Acid was used for suicidal purposes by Charles Eve (30), baker, Great Sampford, who obtained it from the branch-surgery rented at his house by a local doctor.

Cresoline.—Margaret Evans, the wife of a Sketty blacksmith, died from poisoning by cresoline.

Digitalis.—At the inquest on the wife of J. M. Leyland, tradesman, Newchurch, Lancs, a verdict was returned that "Deceased drank a quantity of digitalis, and so poisoned herself, while of unsound mind."

Morphine.—Lewis Howsham, Dalston, died at the Lewis Colony for Epileptics, Cheshire, from morphine-poisoning, given instead of chloral owing to the medical superintendent handing the wrong bottle from his pocket to a nurse.

Prussic Acid.—Dr. Alfred Moore, who was stated to have taken a dose of prussic acid to relieve pain, was found by a South Helton (Durham) Coroner's jury to have died from the effects of the poison on his weak condition and feeble heart.

Salt of Lemon.—Lilian Maud Musker (21) poisoned herself at Crewe with this chemical.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Liability in Respect to Sheep-dipping.

Sir,—For over thirty years I have made an arsenical liquid sheep-dip, and until the last few years never heard of a case of scalding. During the last three or four years several cases of this scalding have occurred, and caused so much worry that I have ceased to push it. My experience is that no dip is so efficacious as the liquid arsenical dip County Chemist. (237/50.)

Sir,—In reply to "Agricola's" remarks, I consider that he was not justified in paying the 25*l.*, or responsible for it, as in all probability the sheep were not in a fit state for dipping. There might have been irritation, pimples, or scratches of the skin, or the animals could have been in a high state of heat, excitement, and perspiration, which, by opening the pores of the skin, would cause hyper-absorption. The dip is not too strong—in fact, the strength could be increased with good results and without any accident, if proper precautions were taken and the instructions fully observed. I should be very slow in changing the composition or strength of the dip. Cases do occur where injuries can be traced to the dip, but in this instance the cause must have been the condition of the animals.—Yours truly,

M.R.C.V.S. (236/48.)

Sir,—It is to be hoped that "Agricola's" experience, as stated in last week's *C. & D.*, is an exceptional one. As far as I know, in Cumberland there will be a dipping-apparatus on every farm, and the farmer dips his own sheep, using an arsenical dip in summer and carbolic paste in winter. Occasionally an odd sheep may suffer slightly from the dipping process, but I do not remember during the last forty years any real damage being done to the sheep by an arsenical dip. Two of our most experienced farmers have corroborated this statement to-day. Their opinion is that the first two or three sheep got an extra quantity of dip on the legs, where there was little wool, or it may have been the caustic soda had not been thoroughly dissolved and well mixed afterwards. One farmer stated that he never allows his sheep to be heated by driving before dipping, but always has them for some time in a field or fold near the dipping-apparatus. The question of compensation is quite unknown in our district, and is a serious one to the chemist, but I think the C.D.A. ought to protect the chemist and charge an extra premium for it. Yours faithfully,

Keswick. T. W. Townley.

Discounted Bills, and the Reason Why.

Sir,—The question of the moment in pharmaceutical circles is undoubtedly, "How are we to ensure that our discounted Insurance accounts will be paid in full?" The solution which seems to have the support of the Pharmaceutical Council is along the lines of "Convict doctors of 'over-prescribing,' and surcharge them!" This must be a long and difficult job, and when completed will not remove the root cause of the present position. What this is I will endeavour to make clear. In return for certain weekly premiums the Government guarantees certain benefits, premiums and benefits being uniform throughout the country. The amount of these premiums was fixed after an actuarial survey of the friendly societies of the country, and is the average cost per head per week of providing the said benefits. Out of these average premiums a certain proportion is set aside for drugs, the resulting fund amounting to a sum which averages 2*s.* per annum for each insured person. Now we come to the step which constitutes the mistake. This drug fund, the amount of which depends upon the assumed average cost per head for the whole country, is split up and allotted to a number of districts separately, the same average of 2*s.* being assumed to hold in every case. One might have expected this to be a wrong hypothesis, and the fact that we have drug funds showing deficits and others surpluses is the natural result. Let this fundamental error be corrected. Form a central drug fund for the whole country, and let the drug bills of the whole country be charged upon it in total, and to remain quite consistent we must have one uniform Tariff. Until we have these two things we shall not be in a position to say with certainty whether the assumed average of 2*s.* is sufficient in practice to provide the necessary drugs or not. The question of "over-prescribing" must, of course, be kept in view, but it is really a side-issue until we have proved that the various drug funds together do not provide a sufficient sum to pay the accounts that have already been rendered.

From the foregoing it seems obvious that the chemists of Lancashire and other discounted areas have a first charge upon all surplus drug funds, and the payment of bonuses locally is unjust to the chemists of the rest of the country. Yours faithfully,

Hampstead Road, N.W. W. R. I. Nicholson.

Insurance Dispensing Payments.

Sir,—At a meeting of Leith panel chemists held last week many notes of discord were heard. We are led to believe that we are completely at the mercy of the Commissioners. From a letter and postcard recently issued by the Commissioners to panel doctors, it seems our getting better financial returns is subject to the doctors' approval. In fairness to a large number of panel doctors, it can be said that this style of doing business is distasteful. The chemists' view we need not give. As the Standing Committee seem to be making little headway, we are forced to seek an answer to the question, "What else can we do?" Some time ago a voice from, I think it was Fife, said, "Let us form a trade union." Is the echoing answer still heard? Finance seems to be a serious stumbling-block with us, but probably very soon we may be asked to decide whether we shall give our guinea to the Pharmaceutical Society or help to finance a proper trade union with paid officials. If we decide to remain Insurance dispensers the subject will require our careful consideration. Perhaps a conference of Chairmen and Secretaries of local Pharmaceutical Committees might clear the air.

Leith. P. Nisbet.

Sir,—The wave of indignation against the discounting under the National Health Insurance scheme is rising rapidly, and unless some effort is made to control this it is obvious danger looms ahead. Once let the Associations get out of hand, and begin to fling about abuse in a wild manner at the heads of the Commissioners, these gentlemen will begin to look about for other means of dispensing, and recollect there are others. The doctors are indispensable, we are not, and there is nothing to prevent the Commissioners opening up dispensaries in the dissatisfied, if not all, areas. True, they could not do it so economically or efficiently, but they could do it, and where are we? Do not let it be for one moment thought I have any sympathy with what is a disgrace to a wealthy country; the whole proceedings are abominable and unworthy a Government who professedly are for the "people" of which we constitute a part. The question is, What is being done? The Pharmaceutical Society adopt the "wait and see" policy. "Our member" is apparently so engrossed otherwise that we are forgotten. I say apparently because it seems incredible that our member, supported by the Society's fund, can be doing

nothing, and that all the help we are receiving is from Opposition members who are probably doing us more harm than good. If the Society would only let us know through the Local Secretaries what action they, in conjunction with Mr. Glyn-Jones, are taking, panel chemists would be more satisfied. Surely there is no necessity for secrecy: we have nothing to be ashamed of, and no underhand manœuvring is necessary. I am no admirer of Mr. Lloyd George, but I cannot but believe that if he were persuaded to receive a deputation and have the actual facts lucidly put before him he would be convinced, and every chemist would, in the future at all events, get his account paid in full. It may interest your readers to know that the accounts for last year were paid in full here, and that a balance of some hundred pounds was carried forward to form a fund to meet possible contingencies in the future. Despite this, when we met the local Insurance Committee we laid a very strong and emphatic protest against the ambiguous discounting clause, and succeeded not only in getting our protest minuted, but forwarded to the Commissioners. Our object in laying this protest was so that should there be any discounting in the future it could not be said we had hitherto undertaken the work without protest. Now, Sir, there must be hundreds of districts similar to Eastbourne where the amount is considerably underdrawn, and I suggest that the Commissioners should call in these amounts in liquidation of their debts, and, if necessary, take over half the floating expences which the medical men in these areas are pocketing, and to which they are no more morally entitled than their less fortunate brethren. This may appear to be against the interests of such towns as these where fortunately there is enough and to spare; but in common honesty I cannot see any reason why a panel chemist, say, in Stockport should be heavily discounted, while I am paid in full for exactly the same work. Further, I doubt very much if we shall ever see that hundred pounds again, however heavy our bills may be in the future. The local Committee is undoubtedly acting in good faith in saying we shall; but the Commissioners will probably argue that each year's receipts must cover each year's expenditure, and surpluses will be retained for other purposes, or to show to the Opposition how economically they have been working by handing over these surpluses to the National Exchequer.

Yours faithfully,

Eastbourne. ARTHUR MILLS.

SIR,—Like your correspondent F. H. Bloomfield, I am much inclined to question the legality of the discounting clause in the drug contract. In the early stages of the negotiations we were offered the supply of drugs and appliances under a "per capita" grant. This was refused, and rightly so; in place of this a Tariff was submitted and accepted by the Commissioners. Having accepted the Tariff, how can they refuse to pay our accounts, so long as the Tariff has been adhered to? We have nothing to do with the inadequancy of the provision made to pay the drug bill, nor have we anything to do with the quantities ordered by the doctors, since we have no power to curtail a prescription in any way; hence if the Commissioners give the doctors permission to order whatever they consider necessary, then the Commissioners must pay the bill. The regulation providing for the accounts to be submitted to the Pharmaceutical Committee, and for the doctor to be surcharged if excessive prescribing is proved, is all very well in theory, but impossible in practice. We may be able to say what is "expensive" prescribing, but how can we say what is "excessive" prescribing when we have no knowledge of the case for which it is required? It is no part of our business to make inquiries of our customers as to their illness, and if we did so it would be regarded as impertinence, and quickly resented by both them and the doctor. The doctor is the only one who can say what is required for the particular case he is attending. Therefore I contend this regulation is useless, and I, for one, would like to see the legality of the discounting clause tested. If there is to be any restriction placed on prescribing, this must be done by regulations issued by the Commissioners themselves. According to last quarter's accounts, matters do not seem to be improving, but rather to be getting worse, and it is quite time some strong action was taken to secure payment. The money which has been deducted during last year would, if it had been in our hands, have been turned over several times in the ordinary course of business, thereby earning more, whereas for the last twelve months it has been lying dormant, and I do not suppose we are likely to receive any interest thereon from the Government. Perhaps now that affairs are in the hands of an Executive Associations Committee we may look for improvement; at any rate, it is important they should take up a strong line of action on the following points:

1. A national Tariff.
2. A guarantee that the chemists' accounts will be paid in full.
3. Some official guidance for checkers to do away with numerous anomalies which exist in different areas regarding pricing.
4. A central fund from which all drug-accounts should be paid, thereby making the fund a national fund.
5. Definite rulings as to the prescribing of proprietary and expensive preparations.

The Tariff should be a national one. I have not yet heard a single convincing argument against this. With regard to excessive prescribing the Commissioners should appoint their own official (who would necessarily have to be a doctor or qualified pharmacist) to make inquiry wherever they considered it necessary. The official should hear evidence from the Panel and Pharmaceutical Committees, and any surcharging should be made on his report, but if no excessive prescribing is proved then the chemists' accounts must be immediately paid up in full. I do not think the Act was ever intended to be used for the exploiting of proprietary manufacturers, and wherever there is an efficient official preparation no similar proprietary should be allowed.—Yours faithfully,

A LOCAL SECRETARY. (236/40.)

Thanks to 1,473.

SIR.—I should like to thank the 1,473 pharmacists who recorded their votes in favour of public service men having a voice on the Pharmaceutical Council, and especially those many friends throughout the country who have written me, not only in support, but have spent themselves in helping to forward the same cause.

Yours faithfully,

HERBERT SKINNER.

16 Priory Gardens, Highgate, N.

Insurance Dispensing Queries.

W. H. B. (224/74).—Charge for one gross of pills (pil. ferri gr. v., ac. arsen., et strych. aa. gr. $\frac{1}{150}$) at cost *plus* one-third and dispensing-fee if from stock. If made extemporaneously the price will be 1*s.* 7*d.* (5*d.* for materials and 1*s.* 2*d.* dispensing-fee). Pills from the wholesaler will accordingly be charged a higher rate, which is an anomaly.

SUPPLY OF OXYGEN.—*Oxygen* (235/5).—The London Insurance Committee pay for oxygen prescribed by panel doctors in reasonable quantities—that is to say, not more than one cylinder at a time; but they object to doctors ordering more than is immediately necessary—for example, a dozen cylinders at a time—as it becomes a high charge upon the Drug Fund.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

An Old Subscriber (236/67) has an errand-boy on a weekly wage, who was taken ill on Tuesday morning, and "A. O. S." paid him his wages in full up to the Saturday, saying he would not require him again. Is "A. O. S." responsible for another week's wage? [Yes.]

J. N. K. (Cairo) (213/45).—Application for Baldness.—You had better try Squire's linimentum crinale, which is made from the following formula:

Cantharidin	gr. j.
Acetic ether	ʒvj.
Dissolve, and add—	
Rectified spirit	℥vj.
Castor oil	℥ij.
Lavender oil	♏xv.

Mix.

After applying a few times the head should be washed.

Mandalay (221/3).—Truss-fitting.—There was an article on this subject in the *C. & D.*, January 31, 1903, p. 147, which gave the information you require. Books on the subject are Wood's "Application of Trusses to Herniæ" (Matthews Bros., 10 New Oxford Street, London, W.C., 1*s.*) and Eccles's "Hernia: Its Etiology, Symptoms, and Treatment" (Baillière, 7*s.* 6*d.*).

J. A. D. (228/22).—Chest and Lung Balsam.—The formula to which you refer is as follows:

Sem. lini	ʒij.
Ext. glycyrrh.	ʒiv.
Ol. anisi	ʒij.
Oxy. scillæ	Ovj.
Syr. tolu.	Oij.
Tr. capsici	ʒj.
Theriacæ	Ovj.
Aq. dest.	Oiv.

Misce.

Polisher (Rangoon) (227/68).—Metal-polishing Paste:

Infusorial earth	10 parts
Levigated chalk	10 parts
Levigated emery	5 parts
Petroleum	1 part
Soft paraffin	40 parts

H. J. T. (226/51).—We do not know a hair-lotion with the name you mention.

T. H. C. (219/1).—Ringworm-ointment for Cattle.—This contains blue ointment and lead plaster, and possibly other constituents. You should accept with reserve the statement that the ointment rubbed into the crown of the head cures ringworm in any part of the body.

E. D. L. (96/7).—The lip-salve is coloured with carmine. Alkanet-root, or better alkannin, is preferable. It requires about 1 of alkannin in 500 to get the usual tint.

X. Y. Z. (213/17).—Powder for Reducing Double-chin.—This is a mixture of sodium sulphate and sodium chloride, and is possibly representative of the solid constituents of a natural mineral water. Your statement that the powder is dissolved in water and the solution rubbed on the double-chin induced us to search for an iodide, but without success. A solution of potassium iodide or a soap containing it has been used for some time as an application for reducing obesity.

S. O. (218/38).—Indigestion-powder.—Your reconstruction of the powder for preventing vomiting and neutralising acidity of the stomach is very near the mark, but we suggest that light magnesia would better represent the sample sent. This need not be in so large a proportion as that you indicate.

W. T. C. (231/6).—Shampoo-powder for Dry Use.—We have given a good many formulæ for this preparation. The simplest is the following:

Powdered orris-root	1 oz.
Rice-starch	3 oz.

Mix intimately and pack in envelopes, each containing 40 grains. This quantity of powder is distributed in the hair overnight and in the morning removed by prolonged brushing.

J. H. M. (Cape Colony).—Children's Tonic.—We are not acquainted with the formula to which you refer, but the following are the two types of this preparation:

1.	2.
Syr. ferri phosph. co., Ext. bynes liq. aa. partes æquales	Ferr. et ammon. cit. ʒss. Sp. chlorof. ... ... ʒiv. Syr. simp. ... ... ʒx. Tr. aurant. ... ... ʒj. Aq. dest. ad ... ʒxx.
M. One or two teaspoonfuls for a dose three times a day.	Dose: One or two teaspoonfuls in water.

Oxide (233/57).—Oxidised Turpentine is, as you state, usually prepared by exposing the oil to the action of air and light until a sufficient degree of oxidation is reached. Manufacturers shorten the process by forcing air through the oil under certain conditions of temperature and pressure, which have not been made public. The oxidation takes only days against months by the first-named process, but there is an element of danger from fire, and the loss amounts to about one-third of the original material. The oxidised oil acquires special solvent properties, which are utilised in the manufacture, for example, of copal varnishes.

Tum Tum (Selukwe) (91/19).—Motorists' Liquid-soap.—The following is the formula to which you refer:

Soft-soap	3 lb.
Turpentine oil	1 pint

Melt the soap in an evaporating-dish. Remove from the fire and add the turpentine little by little, with constant stirring. For use a little is rubbed on the hands, and then removed with warm water.

J. S. (231/62).—Sewing-machine Oil.—Sperm oil alone is not the best oil for sewing-machines. It should be diluted with a third of its volume of paraffin oil. Cheaper mixed oils are prepared by using nut oil in place of sperm oil. Another plan is to purify a mixture of olive oil (3), almond oil (2), and rape oil (1) with 90-per-cent. alcohol, the last-named extracting the colour and other undesirable constituents of the oil. A heavy petroleum, not too thin, is excellent for the purpose required.

P. F. (231/72).—Spirit of Lavender in an old prescription refers to a distillate prepared from fresh lavender-flowers; 2 lb. of flowers was placed in a still with a gallon of rectified spirit and some water, and after digesting for twenty-four hours a gallon of product was distilled. Sweet oil of the same period was olive oil, but the term was as elastic in those days as it is now—any clean oil free from rancidity filling the requirement.

J. H. (New York) (103/14).—(1) History of the Olive-tree.—We are not personally acquainted with a book on the history of the olive-tree, but in Flückiger and Hanbury's "Pharmacographia" mention is made of Constance's "L'Olivier," published in Paris in 1877, which is stated to give full information on the subject. The "Pharmacographia" mentions that the olive-tree was known in ancient Egypt as *bak*, and that it can be traced as far as the seventeenth century before our era. Olive oil is frequently mentioned in the Bible, and had a prominent place among the Greeks and Romans. (2) The question-and-answer type of student's book is not so much in evidence on this side of the Atlantic as it is in the United States, so that your inquiry for a chemistry-book on these lines had better be made locally. The same applies to publications dealing with questions asked by examining boards of pharmacy.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 14, 1864.

The Pharmacy Bill.

The following are resolutions in regard to the Pharmaceutical Council's Bill which were passed at provincial meetings of the United Society of Chemists and Druggists:

Sheffield.—On the motion of Mr. Hornby, seconded by Mr. Huddleestone, it was resolved: "That in the opinion of this meeting the proposed Pharmacy Act of the Pharmaceutical Council is degrading to the chemists and druggists of the kingdom, and totally inadequate for the purposes for which it is introduced. It therefore urges upon all local associations of the trade to combine in strenuous opposition to it, and in support of the Act of Incorporation, as suggested by the United Society of Chemists and Druggists, upon the broad basis of equal rights and a representative government."

Bradford.—Mr. Aldridge, after pointing out the advantage of complete organisation and frequent meetings to promote the objects of the Society, moved: "That the suggested measure of the United Society of Chemists and Druggists is just in its provisions and liberal in its government; that it is calculated to protect the public from incompetent druggists, and to elevate the trade; and this meeting now pledges itself to promote subscriptions in aid of the Incorporation and Defence Fund now being raised to bring that measure in the form of a Bill before Parliament." Mr. Newsholme, in a few appropriate words, seconded this resolution, which was carried unanimously.

Hull.—"That this meeting is of opinion that the proposed amended Pharmacy Act of the Pharmaceutical Society is thoroughly unjust to the chemists and druggists generally, and therefore determines to oppose it to the best of its ability."

Nottingham.—Moved by Mr. Parker and seconded by Mr. Patchett: "That in the opinion of this meeting the proposed Pharmacy Bill is not adapted to the requirements of the trade."

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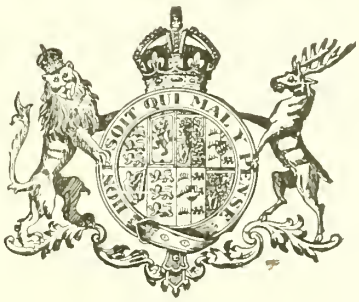

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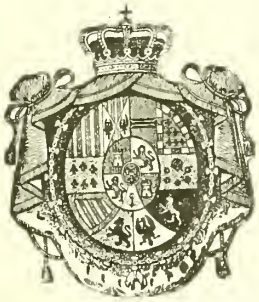

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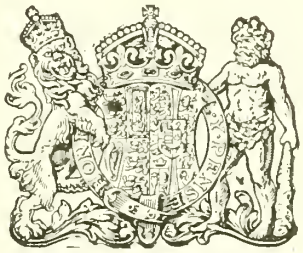

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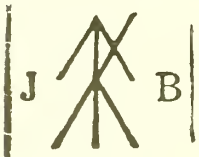

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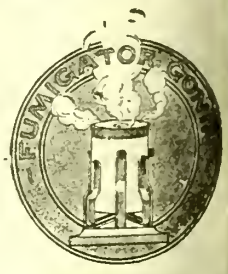

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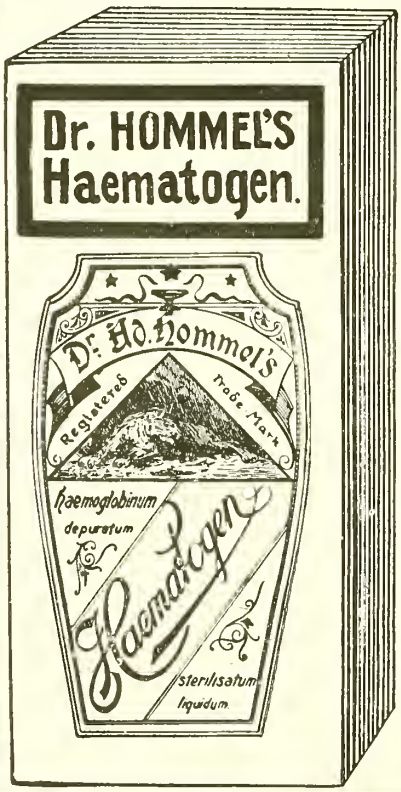

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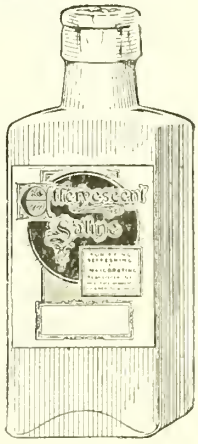

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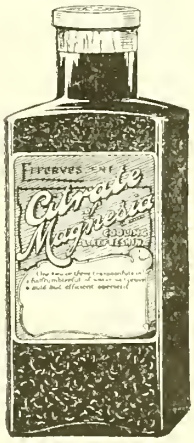

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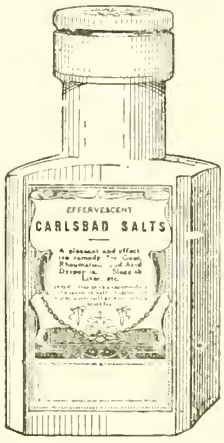

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Phenolphthalein, 7 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb.
Pix. Burgund., Druggists', 1½ cwt. @ 25/6 cwt.; 7 lbs. @ 4½d. lb.
Plumbi Acetas, Druggists', 1 cwt. @ 34/6 cwt.; 7 lbs. @ 5d. lb.; Powder, 1½d. lb. extra.
Podophyll. Resina, P.B., 1 lb. @ 13/- lb.
Potassa Caustica Sticks, P.B., 28 lbs. @ 10d. lb. 6 1-lb. Bots. @ 11d. lb.
Potas. Acetas. Gran. P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
Potas. Bicarb. Pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4d. lb.
Potass. Brom. P.B., 1 cwt. @ 1/7½ lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Potass. Chlor. Pulv., 1 cwt. @ 4d. lb.; 7 lbs. @ 5d. lb.
Potass. Cit., B.P., 7 lbs. @ 2/7 lb.
Potass. Cyanidum, 98%, 1 cwt. @ 11½d. lb.; 7 lbs. @ 1/2 lb.
Potass. Iod., P.B., 1 cwt. @ 11/8 lb.; 14 lbs. @ 11/11 lb.; 3 lbs. @ 12/- lb.
Potass. Metabisulph., 1 cwt. @ 35/6 cwt.; 7 lbs. @ 6d. lb.
Potass. Permang., Cryst., 1 cwt. @ 40/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.
Potass. Prussias Flav., 7 lbs. @ 9d. lb.
Pulv. Cretæ Arom. P.B., 14 lbs. @ 7d. lb.; c. Opio, B.P., 7 lbs. @ 1/9 lb.
Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 35/- cwt.
Pulv. Ipecac. Comp. P.B., 1 lb. @ 4/- lb.
" Jalap Comp. P.B., 1 lb. @ 1/6 lb.
" Rhei Comp. P.B., 1 lb. @ 1/2 lb.

Quassia Chips, 1 cwt. @ 13/6 cwt.; 28 lbs. @ 2d. lb.
Quinine, Bisulph, 100 oz. @ 1/1 oz.; 25 oz. @ 1/3½ oz.; 10 oz. @ 1/4½ oz.
Quinine Ethyl Carb. (Tasteless), 100 oz. @ 1/11 oz.; 10 oz. @ 2/2 oz.
Quinine Hydrobromas or Salicylate, B.P., 100 oz. @ 1/5 oz.; 25 oz. @ 1/6 oz.; 10 oz. @ 1/7 oz.
Quinine Hydrochlor., B.P., 100 ozs. @ 1/4¾ oz.; 25 ozs. @ 1/5½ oz.; 10 ozs. @ 1/6¾ oz.
Quininæ Sulph., B.P., 100 oz. @ 1/0¾ oz.; 25 oz. @ 1/2 oz.; 10 oz. @ 1/2¾ oz.

Rad. Gentian, English Ground, 1 cwt. @ 38/- cwt.; 7 lbs. @ 5d. lb.
Rad. Glycyrrh. English Ground, 1 cwt. @ 24/6 cwt. 7 lbs. @ 3½d. lb.
Rad. Ipecac. Rio., 7 lbs. @ 9/3; 1 lb. @ 9/6.
Rad. Jalap., English Ground, 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/4½ lb.
Rad. Rhei., E.I. English Ground, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.
Rad. Rhei, E.I., Trimmed, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.
Resorcin, B.P., 7 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.

Saccharine, ·550 or ·500, 7 lbs. @ 26/- lb.; 1 lb. @ 27/6 lb.; ·330, 7 lbs. @ 24/- lb.; 1 lb. @ 25/6 lb.
Sacchar. Ust., 1 cwt. @ 25/6 cwt.; 10 lbs. @ 4d. lb.
Saffron, Valentia, B.P., 7 lbs. @ 44/- lb.; 1 lb. @ 45/- lb.; 1 oz. @ 3/3 oz.
Sal. Acetos., 1 cwt. @ 5½d. lb.; 56 lbs. @ 6¼d. lb.; 7 lbs. @ 7d. lb.
Salicinum, B.P., 1 lb. @ 16/6 lb.
Salol, B.P., 7 lbs. @ 2/0½ lb.; 1 lb. @ 2/4 lb.
Sang. Draconis, pulv., English ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.
Santoninum, P.B., 7 lbs. @ 116/6 lb.; 1 lb. @ 119/- lb.
Sapo Cast. Alb., 10 cwt. @ 28/6 cwt.; 2 cwt. @ 30/- cwt.; 7 lbs @ 4d.; pulv., 1 cwt. @ 65/- cwt.; 56 lbs. @ 68/- cwt.; 7 lbs. @ 8d. lb.; Animal pulv., 1 cwt. @ 70/- cwt.; 56 lbs. @ 72/- cwt.; 7 lbs. @ 9d. lb.
Scammony Resin, Pulv., B.P., 7 lbs. @ 4/- lb.; 1 lb. @ 4/5 lb.
Shellac (Orange) 1½ cwt. @ 82/- cwt.; 7 lbs. @ 10½d. lb.
Soda Caustica, 28 lb. tins @ 8½d. lb.; 6 1-lb. bots. @ 10d. lb.
Soda Cit., B.P., 3 lbs. @ 3/0½ lb.
Soda Sulphite, Recryst., 1 cwt. @ 16/6 cwt.; 7 lbs. @ 4d. lb.
Soda Sulphocarbolas, B.P., 7 lbs. @ 11d. lb.; 1 lb. @ 1/1 lb.
Sodii Bromid., P.B., 1 cwt. @ 1/11½ lb.; 7 lbs. @ 2/1½ lb.
Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.
Sodii Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur. 28 lbs. @ 2/1 lb.; 1 lb. @ 2/4 lb.
*Spt. Æther Nit. P.B., 4½ lbs. @ 3/7½ lb.; 1 lb. @ 3/10½ lb.
*Spt. Ammon. Aromat., P.B., 5 lbs. @ 2/10 lb.
*Spt. Chloroform, P.B., 5 lbs. @ 3/7 lb.
Strontiæ Bromid., 1 cwt. @ 1/8½ lb.; 7 lbs. @ 1/11 lb.; 1 lb. @ 2/2 lb.
Strychnina cryst. B.P., 25 ozs. @ 1/7½ oz.; 1 oz. @ 2/- oz.; Hydrochlor. and Sulphate, 2d. oz. less.
Sugar of Milk, P.B., 1 cwt. @ 63/6 cwt.; 7 lbs. @ 8½d. lb.
Sulphonal, P.B., 1 lb. @ 9/6 lb.
*Syr. Aurant, P.B., 7 lbs. @ 9½d. lb.
* " Easton, B.P., 7 lbs. @ 1/0½ lb.
* " Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
* " Ferri Phosph. Co., 7 lbs. @ 5½d. lb.
* " Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
* " Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* " Rhamni, 7 lbs. @ 10½d. lb.
* " Rhei, P.B., 7 lbs. @ 8d. lb.
* " Scillæ, P.B., 7 lbs. @ 5d. lb.
* " Sennæ, P.B., 7 lbs. @ 8½d. lb.
* " Tolut., P.B., 7 lbs. @ 8½d. lb.

Thymol, 7 lbs. @ 7/8 lb.; 1 lb. @ 8/6 lb.
Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/6 lb.; bond, 8½d. Aquos, 10d. lb.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6½d. Aquos, 1/- lb.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/6 lb.; bond, 10d.
*Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6½d. Aquos, 1/1 lb.
*Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb. Aquos, 10d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Chlorof. c. Morph., B.P. 1885, 5 lbs. @ 2/- lb.; bond, 1/6½ lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 1/0½ lb. Aquos, 1/4 lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb. Aquos, 1/2 lb.

*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb. Aquos, 1/- lb.
*Tinct. Gelsem. P.B., 5 lbs. @ 2/10 lb.; bond, 6½d. lb. Aquos, 1/3 lb.
*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.; bond, 7¼d. lb. Aquos, 1/5 lb.
*Tinct. Iodi. B.P., 5 lbs. @ 4/4 lb.; bond, 1/8 lb.; decolor., 5 lbs. @ 4/8 lb.; bond, 1/5½.
*Tinct Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7¾d. lb. Aquos, 1/- lb.
*Tinct Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9¾d. lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb. Aquos, 1/2 lb.
*Tinct. Opii., B.P., 5 lbs. @ 3/2 lb.; bond, 2/4 lb.
*Tinct. Opii Aquos., 5 lbs. @ 2/4 lb.
*Tinct. Quininæ Amm., B.P., 5 lbs. @ 2/7½ lb.; bond, 1/0½ lb.
*Tinct. Rhei Co., B.P., 5 lbs. @ 2/6 lb.; bond, 10d. lb. Aquos, 1/- lb.
*Tinct. Scillæ, B.P., 5 lbs. @ 2/6 lb.; bond, 7½d. Aquos, 10d. lb.
*Tinct. Senegæ, P.B., 5 lbs. @ 3/3 lb.; bond; 1/5½ lb. Aquos, 1/5½ lb.
*Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d. lb.
*Tinct. Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb. Aquos, 1/- lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb., bond, 8½d. lb. Aquos, 1/2 lb.
*Tinct. Zingib., P.B. 5 lbs. @ 4/- lb.; bond, 6½d. lb.
*Tinct. Zingib. Fortior., 5 lbs. @ 4/3 lb.; bond, 10½d. lb.
Treacle (Black), casks about 5½ gross @ 42/- per cask; 24 lbs. @ 2d. lb.
Turpentine (Best American), 1 gal. tins @ 3/10 each; Venice, Genuine, 40 lbs. @ 1/4 lb.; 9 lbs. @ 1/7 lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 6d. lb.; Flav. 28 lbs. @ 4½d. lb.
" Acid. Carbol., B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
" Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb.
" Hydrargyri, B.P., 28 lbs. @ 1/9 lb.; 7 lbs @ 1/11 lb.
" Hydrarg. Ammon., B.P., 28 lbs. @ 11d. lb. 7 lbs. @ 1/2 lb.
" Hyd. Nit. Dil., 7 lbs. @ 10d. lb.
" Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6½d. lb.
" Resinæ, P.B., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/- lb.
" Sulphuris, B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.
" Zinci Oxid. Benz., B.P., 28 lbs. @ 8½d. lb.

Wax, Japan, 2 cwt. @ 57/6 cwt.; 7 lb. @ 7½d. lb.

Zinci Oleat. Powder, B.P.C., 7 lbs. @ 2/- lb.
Zinci Oxid., Whitest and Lightest, B.P., 1 cwt. @ 38/- cwt.; 28 lbs. @ 5d. lb.; 7 lbs. @ 6d. lb.
" Sulph., pure, 1 cwt. @ 18/- cwt.; 28 lbs. @ 2½d. lb.
" Sulphocarbolas, B.P., 7 lbs. @ 11d. lb.; 1 lb. @ 1/1 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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AND
SURGICAL DRESSINGS

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33/35 CHARTERHOUSE SQUARE,
LONDON, E.C.

ICHTHYOL

WE WARN BUYERS that fraudulent and ineffective articles, purporting to be Ichthyol, or "equal to Ichthyol," are offered by unscrupulous dealers.

GENUINE ICHTHYOL, as it has been studied and is wanted by the Medical Profession and supplied all the time to the Trade, is delivered by us in tins and bottles under our special label with our name, and can be obtained in original packing from any wholesale druggist in the U. K. The use of our Registered Trade Marks "ICHTHYOL" and "ICHTHYOLATE" for any other product means deception and dishonesty, and will entail their penalties.

PHYSICIANS, CHEMISTS, and DRUGGISTS are requested to report to us all cases where imitation products are suspected.

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HAMBURG.

1844 THOMAS TYRER & Co. Ltd. 1914
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PURE & TECHNICAL.

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AND
AGRICULTURAL
PURPOSES, &c.

Bismuths, Mercurials, Hypophosphites, Ethers
and all Technical & Special Chemicals.
OUR SOL. 'MAGNESIA BICARB.' CONTAINS NO ARSENIC.

OUR REPUTATION YOUR GUARANTEE

INDEX and BUYERS' GUIDE

See pages 5 to 9.

NOTICE.

MILK EMULSION.

The name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered, people expect to receive FAULDING'S MILK EMULSION.
We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights.

"Milk Emulsion" is sold in Bottles only, Wholesale, by—
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54 King William Street, Adelaide, South Australia.
313 Murray Street, Perth, Western Australia.
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GOOD!

IT'S MASON'S

EXTRACT OF HERBS.

The Drink for the Masses.

Millions of Glasses used daily by workers all over the Empire.

A CONSTANT USER SAYS:

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Gentlemen,—For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion, from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

I am, Sirs, yours truly. J. W.

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MASON'S EXTRACT OF HERBS

is cheap. For 2d. you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

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Citrate Magnesia

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Craig's Court, Charing Cross, London

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Wholesale and Export Drug Merchants, Manufacturing Chemists

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	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3/6
* " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

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A valuable emollient medicated skin soap, especially suitable for use in Eczema — 1/ — 8/-

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MALTED BARLEY, WHEAT & MILK in TABLET Form.

In Glass Pocket Flasks.

Costs the Trade 9/- for Single Dozens.

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Fluid Beef is the line that sells. More cups to the bottle, better quality and low minimum selling prices are a few points that, backed by good advertising, create the demand.

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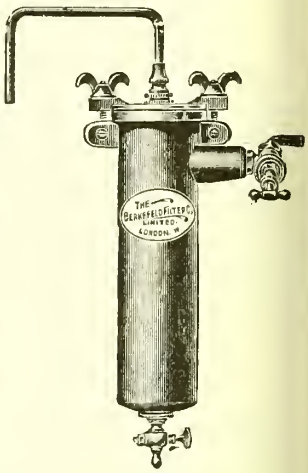

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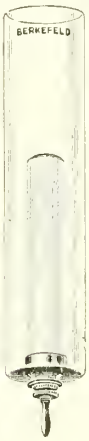

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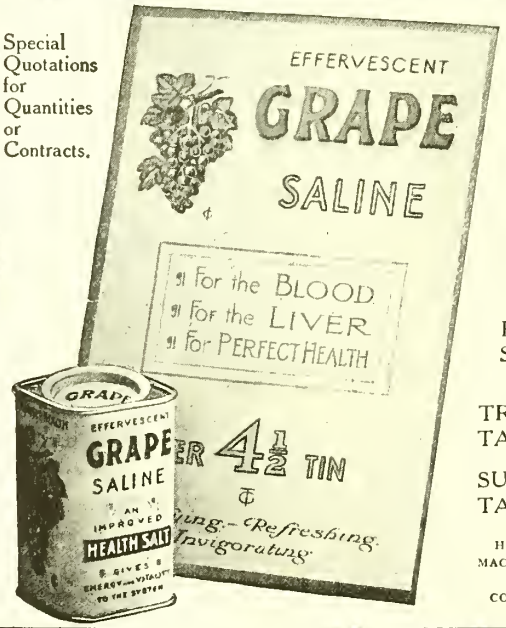

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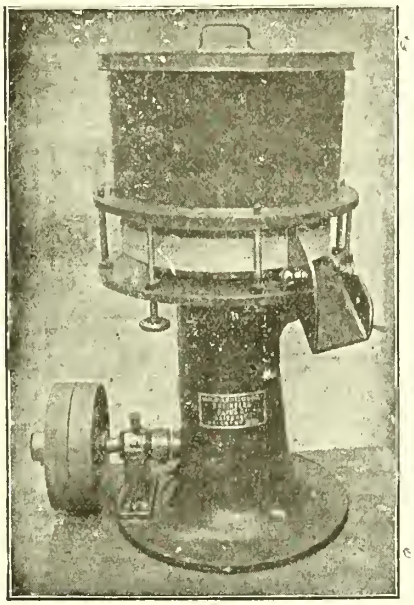

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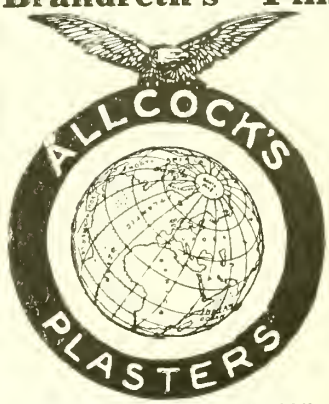

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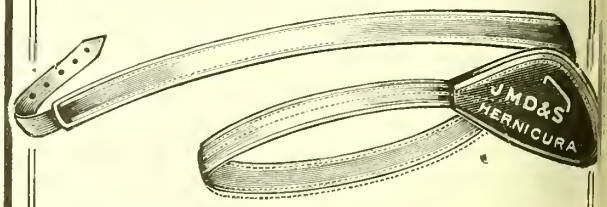

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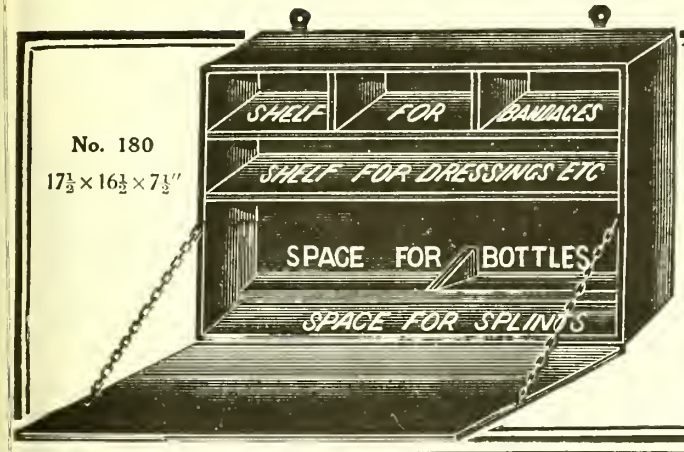

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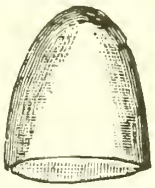

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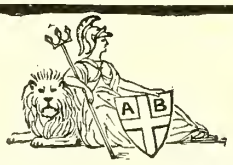

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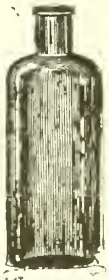

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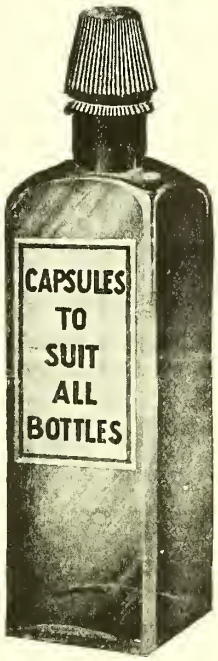

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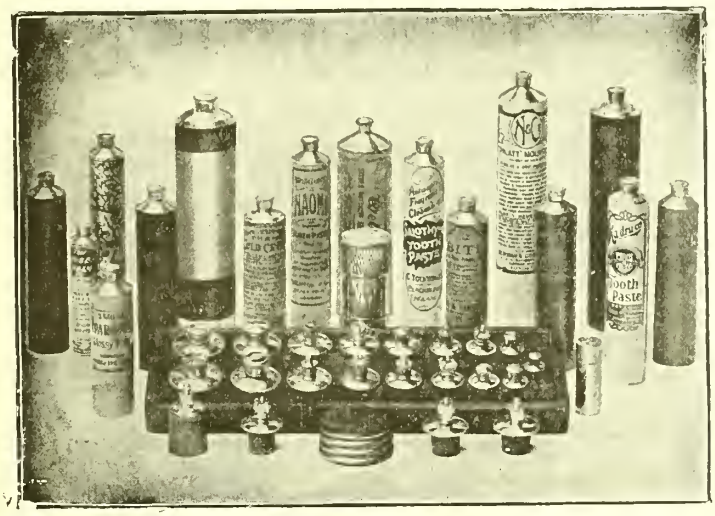

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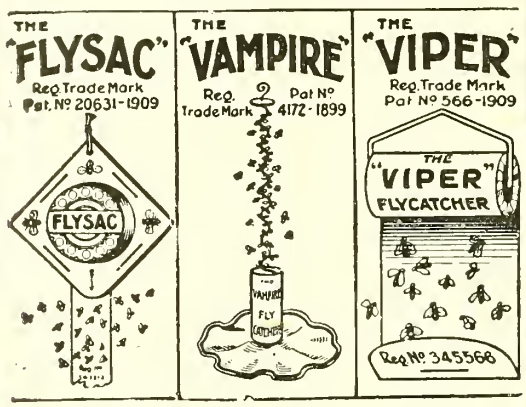

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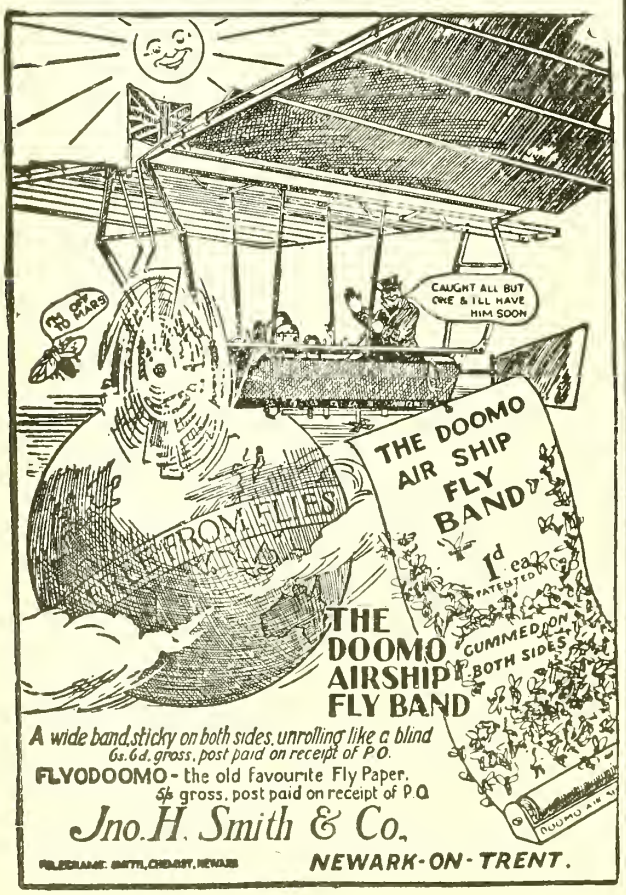

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Poison Bottles in ACTINIC GREEN GLASS

Lettered **NOT TO BE TAKEN**

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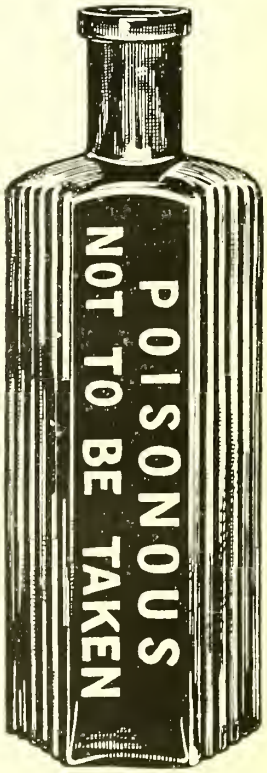

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Autumnal Catarrh, Rose-Fever, and Similar Complaints.

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(liquid, powder, and also salve)

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Patented in Germany, England, the United States, &c.

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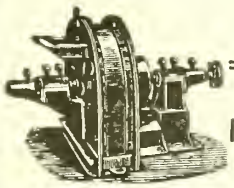

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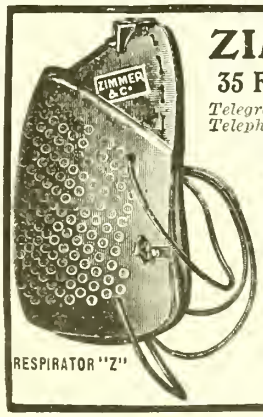

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RESPIRATORS

3/6 each, 36/- per doz.;

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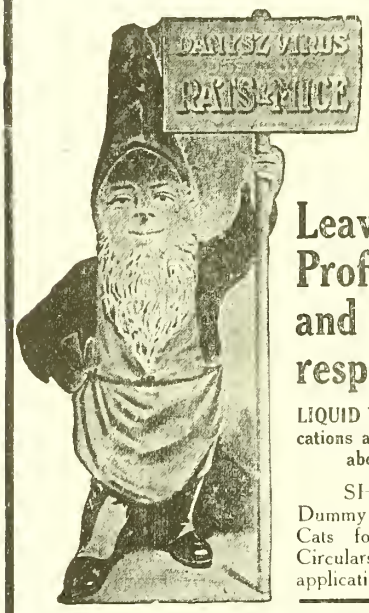

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Leave you a Profit of 75% and 50% respectively.

LIQUID VIRUS for large applications at 7/6 a bottle, making about 5 lb. of bait.

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A successful modification of the Veterinary Preparation. In Pots, **2/-** each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

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NOT A RAT CAN ESCAPE

BANGOR MEDICAL HALL,
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MR. HARLEY,
Dear Sir.—Enclosed find cheque, &c. I might add that I need have no fear now in stocking your

"RODINE" RAT POISON

although I have only had a small quantity, yet from what my customers have told me I now have no hesitation in recommending it. Several of my customers have recommended it to other people, stating they never had a better poison, and that there was not a rat left about the place.

Yours, &c.,
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COCKROACHES CLEARED WITH BLATTIS, THE UNION PASTE

Guaranteed by E. Howarth, F.Z.S., who destroyed a plague of them at Sheffield Workhouse in 1896.
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HOWARTH & FAIR, 471 Crukesmoor Road, Sheffield.

INDEX and BUYERS' GUIDE

See pages 5 to 9.

STEINER'S VERMIN PASTE

Destroys RATS, COCKROACHES, &c.

Sold in 3d., 6d. and 1s. Glass Jars, and 2s. 6d. Tins.
Warranted for Home and Export Trade.

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KILLS BUGS, FLEAS, MOTHS, BLACKBEETLES, AND ALL OFFENSIVE INSECTS.

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(ENGLISH MANUFACTURE)

OF EVERY DESCRIPTION.

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They are very cheap, from 1/- per gross upwards, WOODEN BOTTLES & VIALS also from 1/- per gross upwards.

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Pill Boxes.

A boon to Ointment Manufacturers.
A perfect substitute for a Covered Pot.

Unbreakable and very light and saves half the duty in Countries where it is charged on the gross weight.

SILICATED GREASE PROOF PATENT BOXES

See that each Silicated Box is Stamped on the bottom with our Stamp, to avoid worthless imitations.

Price List and Samples on application.

ROGERS & CO., Carter St., Walworth, LONDON, S.E.

Save Your Clothes!

Keep them from Chemical Stains.

Fig. 1.

Fig. 3.

Fig. 1. THE COMBINATION OVERALL, in Brown, with detachable buttons, **6/6** post paid.

Fig. 2. THE COVERALL COAT, in Khaki, detachable buttons, 45 in. long, **6/6** post paid.

Fig 3 SERVICEABLE BLACK APRONS, **1/6** post paid.

Fig. 4. JACKET and TROUSERS SUIT OVERALLS, in Brown or Blue, **7/-** post paid.

Jacket or Trousers separately, **3 6** post paid.

Fig. 2.

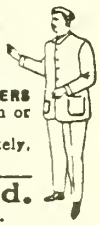

Fig. 4

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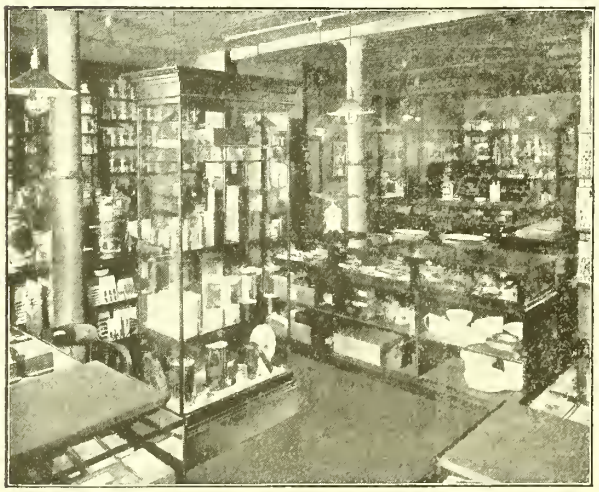
Patent Medicines, Sundries, Drugs, Packed Goods.



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It is a genuine pleasure tc us t establish personal relations with ou customers and to show them ove our premises.

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OFFICE: 42 CANNON STREET, E.C. SATURDAY, MAY 30, 1914

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Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

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—LONDON, S.W. (Death Vacancy).—Good-class Retail and Dispensing Business; prominent position; returns about £1,300; *profits above the average of Retail trade*; commodious shop premises, held on lease; price £700; full investigation invited.

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—LONDON, W.—Ready-money Business; capable of extension under supervision of a principal; returns about £600 per annum; *profits 50 per cent.*; rent low; price £200.

—MIDDLESEX (few miles out).—Good-class Business, Retail and Dispensing; returns (present rate) about £1,200 per annum; full investigation courted; rent £36; about £600 required, or valuation terms entertained.

—LONDON, S.W.—For immediate Disposal, Ready-money Business, situate in main road; returns average £1,000; full investigation allowed; rent £65, including good house; price £[illegible]0, or valuation of stock and fixtures.

—LONDON, S.E.—Light Retail, Prescribing, and Dispensing Business; returns about £950 per annum; *net profit* £275; double-fronted shop; rent £80; held on lease; no near opposition; price £900.

—LANCS.—Family, Retail, and Dispensing; excellent opening for Dentistry; returns average £20 per week; large shop, double fronted; good stock; rent £30; terms, £70 and valuation, or £[illegible]0 down and £200 by instalments.

8.—NORTH OF ENGLAND (Large Town).—Good-class Dispensing and Retail Business; returns average between £1,360 and £1,550; *net profit from £275 to £300*; single-fronted shop, nicely fitted and fully stocked; rent £85; price £900.

9.—SOUTHERN COUNTY (Village).—Mixed Business, entirely unopposed; returns (present rate) about £900 per annum; *net profit* £320; double-fronted shop, fully stocked; roomy house; rent moderate; terms, valuation of stock and fixtures.

10.—YORKS COAST.—Old-established Business; held by vendor upwards of 37 years, now retiring; returns show a steady increase, over £800 last year; *net profit* £250; price £500, rent £50, including residence; nicely fitted and well-stocked shop.

11.—INLAND HEALTH RESORT.—Very old-established Business, Dispensing and Retail, situate in main thoroughfare; returns £610, *at profits above the average of Retail trade*; very few Patents sold; roomy house, with garden attached; rent moderate; price £400.

12.—HOME COUNTY.—Unopposed Business; price £430 for immediate sale; Dispensing and Family Retail, with Appointment; returns £625; *net profit* £241; good house and garden.

13.—HANTS.—General Retail and Agricultural Business; returns about £800 per annum at fair prices; large double fronted shop, well stocked; convenient house, small garden; moderate rent; held on lease; price £450.

14.—SUFFOLK.—Country Retail and Dispensing Business; established; returns average about £2,300 per annum at good prices; large shop, double fronted; rent £80; price £1,200, or valuation terms entertained.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

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£1,200 returns.—DEVONSHIRE.—General Light Retail, with fair Dispensing, in good position of large town; net profit £350; price £800.

£400 (over) returns.—SURREY.—Genteel-class Retail in very pretty district; fine opening for Optical; good house, garden, etc.; net rental £15; price £230, or near offer.

£670 returns.—LANCASHIRE (popular seaside resort).—Nice corner position; returns increasing; price £330.

£900 returns.—SOMERSET.—Very profitable Light Retail in prosperous town; has returned much more and would again by personal attention; excellent shop and premises; valuation, about £450; an exceptional chance.

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We desire particularly to draw the attention of Colonial nd Foreign Subscribers to the fact that in cases where ey require partners, agents or assistants, or wish to sell ir businesses, an advertisement in this Supplement, p d in every copy of "The Chemist and Druggist," shou e the readiest means of helping them to attain their ob t. The tariff for such announcements is given under the a o- priate headings in the Supplement. Instructions an e mittances can be sent to us direct or through the a e- tisers' correspondents in this country.

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1.—WEST OF ENGLAND (Seaside Resort). — Good Family Retail and Dispensing Business; returns £1,850; scope for further extension; splendid position; large residence attached; price simply valuation of stock and fixtures; about £1,000.

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3.—SOMERSET.—Profitable Retail, Dispensing, and Prescribing; returns £900 under poor management; was doing £1,500; good house and garden; low rent; large shop, fully stocked; price £500, or valuation.

4.—OXON.—Old-established Light Country Retail Business, in fine position of good market town; returns £800, with scope for increase; double-fronted shop, well stocked; price valuation.

5.—DEVON.—Light Family Retail and Dispensing; charming locality; easily worked; returns £700; net profit £200; attractive Pharmacy, well stocked; good house; price £400 or valuation.

6.—SUSSEX.—Good-class Light Country Retail; no heavy trade; returns £700; net profit £200; good house and garden; modern attractive shop, fully stocked; price only £340, or valuation.

7.—LONDON, S.E.—Sound middle-class Cash Suburban Retail Business; no opposition; returns £1,460; net profit about £450; good house; attractive shop, well stocked; price £900, or £100 and valuation.

8.—LONDON, N.E. — Cash Retail and Prescribing; not on Panel; returns over £800; plenty of scope; net profit £250; busy main road; large shop, fully stocked; price £425, or offer.

9.—YORKSHIRE.—Good-class Suburban Retail and Dispe Business, in fine position; returns nearly £1,300; good pr handsome Pharmacy, heavily stocked; price £900 cash.

10.—NORFOLK.—Old-established Retail and Agricultural ness, in good market town; same hands many years; negle returns over £800; net profit about £250; fine premises; easily do £1,200; valuation only required, no goodwill.

11.—NORTHANTS.—Light Retail and Prescribing, with N. returns over £500; net profit £200; low rent; owner reti price £200, or close offer; worth seeing.

12.—GUILDFORD (near).—Good Light Country Retail; re over £400; net profit £160; good house and garden; char locality; price for quick sale £250.

13.—SOUTH WALES. — Unopposed Light Retail Busine rapidly growing and prosperous district; returns last year this year will do £750; low rent; nice modern house pharmacy, fully stocked; price £600.

14.—KENT (10 miles out).—High-class Retail and Dispe business; returns over £700, increasing; good profits; fine and garden; stock and fixtures worth about £450; price £50

15.—LONDON, N.W.—For immediate Disposal, through e illness, good-class Business, in splendid main road pos returns £750; no cutting; stands to do £1,200; attractive well stocked; price £500 cash, or near offer.

16.—LONDON, S.E. (8 miles out).—Sound Retail Business ready money; returns over £800, increasing; net profit £ good house, smart Pharmacy; no near opposition; price £40

VALUATIONS FOR STOCKTAKING.

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LINCOLNSHIRE.—Market Town Business, thriving Manufacturing district; nearest Chemist half a mile; Cash trade, Insurance Dispensing, Optics, Dentistry, and Side-lines; opportunity for all capital and energy. Apply, T. Rimington & Co., Market Place, Grantham.

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MANCHESTER.—Old-established Pharmacy for Sale, making £5 weekly clear; expenses low, reasonable offer wanted. 109, Office of this Paper.

MIDLAND City Suburb.—Good Prescribing and Dispensing Business for Disposal; returns over £1,300; net profit £400; plenty of scope for increase, especially Optical and Photographic; pleasant locality; lock-up, well fitted, electric light; one good assistant; stock £550; price £800, as owner, owing to ill-health, is anxious to leave soon; Dentistry would make a splendid addition. 106/34, Office of this Paper.

OAKHAM.—For Disposal, a profitable Light Retail and Dispensing Business, well stocked; full Wine Licence attached; will sell at stock and valuation. Full particulars on application to 1/17, Office of this Paper.

SEAPORT Town, Co. Durham.—£350, or near offer, will purchase steady, profitable Drug Business, returning approximate £200 net profit; the vendor will also sell, if desired, to purchaser of the business the freehold of property (house and shop) or let at a rental to be agreed upon. "Statim" (108/38), Office of this Paper.

SOUTH COAST, Important Town (Death Vacancy).—Good-class Retail, Dispensing, Photographic, well stocked, handsomely fitted, in good business thoroughfare, rapidly improving; valuation of stock and fixtures, between £500 and £600, or reasonable offer. Bona-fide inquirers can have full particulars, "Aurant" (105/29), Office of this Paper.

YORKSHIRE.—Busy go-ahead industrial town; good-class Light Retail, Prescribing Business; very profitable; £4 a week profit; splendid residence, with every convenience; rent £35; established 50 years; only one change; terms, valuation, under £200 or stock reduced to suit purchaser; no goodwill. "Immediate" (109/11), Office of this Paper.

YORKSHIRE (Health Resort).—Old-established and prominently situated Light Retail, Dispensing, with Photographic; returns £1,500; splendid opening for a man with good ideas of Proprietary Toilet lines, etc. "Cinchona" (108/5), Office of this Paper.

A QUALIFIED Chemist entering the Medical profession is desirous of selling his high-class Chemist's Business; large modern and convenient house, with bathroom, garden, etc.; within 1 minute of station and 20 minutes of London Bridge; price required £380 for quick sale. Apply, 109/19, Office of this Paper.

BUSINESS for Disposal, owing to ill-health, in good market town in West of England; served by two lines of railways, and nearest town to some favourite Seaside Resorts; owing to ill-health the business has not been vigorously worked, but a good man would make a comfortable living; double-fronted shop; large, commodious house, with every convenience; immediate possession; price £200; rent £45. Apply, "B." (108/25), Office of this Paper.

COUNTRY Business for Sale, fine position, Kentish market town; returns over £1,100; good opening for Optics and Photography; modern well-fitted shop; mostly Cash trade; now under managership; rent £80, let off £30; price £100 and valuation (about £600 all at); part could remain. Yates, 45 St. Mary Axe, E.C.

DRUG Stores (established), large industrial district, Leeds, grand position; doing good trade; splendid opportunity for qualified man for Insurance work and Dentistry; absolutely no opposition, only one (Chemist) for over square mile; good accommodation, 3 bedrooms, bath; easy rent; chance of [illegible] investigation. Write, 104/36, Office of this Paper.

FOR Sale, newly-opened Business, fine position in busy town at banks of the Thames; insufficient capital reason for wishing to sell. Apply, 107/16, Office of this Paper.

IN centre of prosperous town (30,000), South Wales, best position; oldest established; returning over £2,000, good prices; rent £100; lease 10 years; ill-health sole cause of retirement; valuation stock and fixtures, no goodwill; exceptional opportunity. Friend, 1 Mountfield Road, Church End, Finchley, London, N.

OLD-ESTABLISHED Retail, Prescribing, and Dispensing Business; modern fittings; good stock; N.H.I. Work; nice house, with long lease; net profit about £300. For full particulars apply, Jones, Pharmacist, Connah's Quay, near Chester.

OLD-ESTABLISHED Business in best position in thriving market town (Oxfordshire); neglected by present proprietor, who is retiring; good house; moderate rent; stock and excellent fixtures £60 only; could be much improved in energetic hands; inspection invited. W. H. Stephan, Chemist, Chipping Norton.

QUALIFIED Assistant with £300 cash, be own master; Seaside Business; immediate disposal; sound reasons; small balance purchase money end of season; equal to berth of £250 to £300; price asked below valuation, which would be agreed to if desired; large house, would be decorated suitably; bargain for married man. "Amuonal" (109/26), Office of this Paper.

RETAIL Business, good position, busy town; owing to death of owner to be Sold immediately much below valuation, about £175 all at; low rent. Apply, "Exors.," 2 Paul's Row, High Wycombe.

TWO Suburban Retail and Dispensing Businesses for Sale owing to ill-health; one returning over £1,000 a year; price £800; the other will be sold for stock and fixtures; both low-rented. Apply, "Pharmacist" (110/370), Office of this Paper.

VERY desirable Seaside Business offered through chronic sickness; opportunity rarely occurring; changed hands once in 30 years; takings (profitable) £1,400; just on season's threshold; genuine buyers commanding £900 can have frank particulars and photos. "Chemacist" (107/14), Office of this Paper.

£18.—Compact little Drug Stores, doing £4 under female management; would increase quickly with proper attention; no near opposition; shop, two rooms, and scullery, 14s. inclusive; illness compels sacrifice; good chance for beginner with small capital or elderly man. Apply first, "E. B. C.," 213 Longley Road, Tooting, S.W.

£150.—Streatham.—Compact, well-fitted Shop, doing £10 average, and increasing, under unqualified management; comfortable seven-roomed house; stables in rear, let off £7 10s., leaving net rent £32 10s. and rates; big scope for N.H.I. Dispensing; no near opposition and no severe cutting. 110/29, Office of this Paper.

BUSINESSES WANTED.

WANTED by elderly Chemist, a Country Business, unopposed; must be in a nice spot, low rental, with garden; Yorkshire or Derbyshire dales preferred; within easy reach of Station; state full particulars. Apply, 108/31, Office of this Paper.

TO LET.

CHEMIST.—Good opening at Beckenham Road, Penge; owner would advance part cost of fittings; good house, 8 large rooms, bath; low rent, £40 per annum. Particulars, Bathurst & Son, Dalston Junction, N.E. 'Phone 199 Dalston.

TO Let, in a rapidly growing shop centre in the Undercliff, Felixstowe (100 yards from Pier and Sea), a new Shop, with residence over planned for season letting; excellent opening for a Chemist; no such business within three-quarters of a mile. Apply to Tuddenham, Builder, Felixstowe.

SHOP to Let; best position; fine opportunity for Chemist; population 8,000; only one Chemist. Apply to J. Meikle, 11 Norwich Road, Cadoxton, Cardiff.

FOR SALE.

CASH Till, total adding (second-hand); will accept low price cash. Write, "H. W.," 13 Rowena Crescent, Battersea, S.W.

HAVING let my premises on lease, I offer, at valuation, my excellent Mahogany Shopfittings, in good condition; inspection invited. J. F. Brown, Pharmaceutical Chemist, 1 Cannon Street, Dover.

SELLING off Stock.—A few Patents, Soaps, Sundries, Drugs, all in first-class condition; first reasonable offers accepted. Send for list, 105/37, Office of this Paper.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AUSTRALASIA.—Good Agency wanted by advertiser, who has thorough knowledge of the market and is in a position to handle a good line. Please write, giving particulars, to H. A. Reeves, Ivanhoe Hotel, London, W.C.

BELGIUM. — Advertiser, very efficient, with Chemical-Pharmaceutical training, good appearance, excellent references, well connected with Wholesalers, seeks the Representation of first-class Manufacturers of Chemicals, Specialities, Drugs, etc. Write to 56/32, Office of this Paper.

PARIS.—English gentleman visiting Doctors would Represent Pharmaceuticals or Specialities having real medical value; also organised and qualified to open branch for important Retail firm (style Boot's); large returns on account of important English colony; London and Paris references. Saillard, 15 Rue de l'Espérance, Asnières (Seine), France.

SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

PARTNERSHIPS.

WANTED, on account of ill-health, a qualified Partner in an old-established Retail and Dispensing Business in the West End (London); annual returns over £2,000. Apply, "Chemist" (110/37), Office of this Paper.

PUPILS.

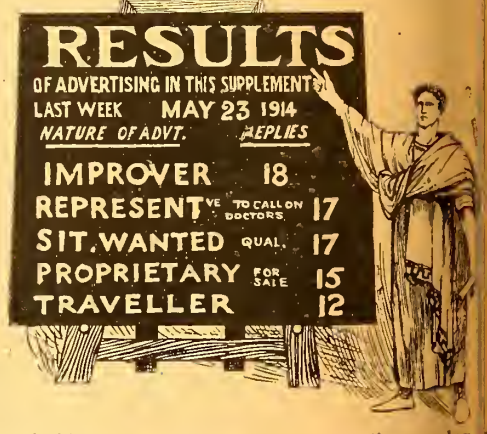
DENTAL Pupil.—Dental Surgeon, L.D.S., Eng., has vacancy for a Pupil; up-to-date tuition; especially Crowns and Bridge work; easy access of Hospitals; reasonable premium. 89 South Side, Clapham Common, S.W.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have addressed to this Office, and forwarded on payment additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



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TO SAVE TROUBLE.

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REMEMBER you are one of possibly hundreds applying f same position. Put your case before the advertiser so th may be able to form a MENTAL PICTURE of your ableness.

BE BRIEF BUT CLEAR.—Millions of applications are consig the waste-paper basket UNCONSIDERED, because the cannot form this picture from the inadequacy of the ma set before him

RETAIL.

BATH.—I shall want a Dispenser for four weeks from Jun his religion and politics are immaterial, but he must his work, hold a Minor certificate, and be recommended last employer; fee for the term £12 12s. Hedley Coe, Ch Bath.

BEDFORD.—Wanted, Assistant for Dispensing and G Retail; outdoors; easy hours. Please give particula age, experience, salary, and references to Taylor, Brawn & Ltd.

BIRMINGHAM.—Part-time Assistant required; evenings; manent; Mixed business; must be able to Dis "Brook" (108/41), Office of this Paper.

BOURNEMOUTH.—Capable Assistant wanted; outdoors; fication not essential. J. H. Sharland, Pharmacist, Holdenhurst Road, Bournemouth.

C DIFF.—Branch Manager; qualified; permanency; married, live on premises; excellent house; good locality; must be good Salesman and Dispenser; also non-registered, to Man Drug-store; married preferred, to live on premises; push, obliging, and energetic; one with knowledge of Optics pref d. Gwilym Evans, Ltd., Chemists, 158 City Road, Cardiff.

CL TON.—Experienced unqualified Assistant wanted, also busi. nior, for good-class Dispensing, Photographic, and Optical pract. Apply, giving age and full particulars, to the Pro- on-Se Maskew & Co., 26 and 27 Electric Parade, Clacton-

CR BOROUGH.—Required immediately, thoroughly capable busin. istant (qualified or unqualified) for good-class Dispensing salary. Apply, with full particulars of experience, age, height, borou required (indoors), G. H. F. Dier, Pharmacist, Crow-

E ASBOURNE.—Wanted, unqualified Assistant, about 23, for man. otographic and Light Retail; good salary to competent tovin, Chemist and Optician.

GR SBY.—Wanted, unqualified Assistant; age 21 to 26; out- rs; no Sunday duty; half-day holiday weekly. State salary required, references, experience, and when disengaged, Moore Chemist, Grimsby.

HE E BAY, Kent.—Smart, competent Assistant; good Counter a Photographic experience. State full particulars, Pyma Chemist, Herne Bay.

IPSW CH.—Junior Assistant required at once; rooms provided; o just leaving his apprenticeship would suit, but know edgo Photography essential. Send usual particulars to Harok hard, 26 Westgate Street.

LIV POOL.—At once, unqualified Assistant, about 25, ce ble of taking charge; knowledge of Photography. Full ertion rs to Hartley, Pharmacist, 278 Westminster Road, Liverp .

LON N.—Unqualified Junior Assistant required, about 23 ye s of age. Apply, giving usual particulars, to A. J. Philip 156 Cromwell Road, South Kensington.

L ON N.—Wanted, a thoroughly competent, smart Assistant (q lified) for a quick business in working-class neighbour- ood; ustomed to Dispensing; good salary to the right man; also a nior, well up in Dispensing. Apply, giving particulars, salary quired, references, age, height, Mr. J. W. Bartlett, 5 Pr n Road, Leytonstone, E.

LON N.—Qualified elderly, or one seeking light permanent etc., oyment; easy hours arranged. State salary, references, gent" (111/2), Office of this Paper.

ONDON, near Victoria.—Junior or Improver required; outdoors; ag 18 to 20; Light Retail and Dispensing; one wishing gain perience entertained. State usual particulars and wages quire o "Chemists," 8 Claverton Street, Pimlico, S.W.

ONDON, E.—Unqualified Assistant required for modern Cash bus ess; Counter and Dispensing experience essential; per- anenc State age and when at liberty and salary required, 08 43 ffice of this Paper.

OND N.—An experienced Assistant; also a Junior; two ass ants kept. Apply (letter only), stating experience, mes references, when disengaged, and salary required (in- ors), Chemist," 82 Bayston Road, Stoke Newington, N.

OND , N.—Locum for Retail and Dispensing during July and ugust (preferably) or August and September; adequate p pr ded. Reply at once to "Oberon" (108/19), Office of s Pa .

OND , N.E.—Assistant wanted, unqualified, but with good exp ence in Prescribing, N.H.I. Dispensing, and General unter ork, including Photography; salary 50s. per week utdoor Please state age, height, experience, references, en di gaged, etc., to 106/39, Office of this Paper.

OND , S.E.—Qualified Assistant; young and energetic; outd rs. Apply, with full particulars, experience, salary, refer ces, 108/13, Office of this Paper.

ONDO , S.E.—Wanted soon, Junior Assistant, unqualified, good Dispenser, in Light Retail business; salary 45s. per k. ly, with full particulars, age, experience, etc., to 6. ce of this Paper.

ONDO , S.W. Suburb.—Wanted by June 20, unqualified Jun meals in, bedroom provided out. Please give usual ticule salary required, etc., Watson, 100 Mitcham Road, ting, W.

LOWESTOFT AND NORTH SUFFOLK HOSPITAL.

APPLICATIONS are invited from qualified (male) Dispensers for the post of Dispenser.

The applicant must be prepared to commence his duties on the 28th June next.

Salary at the rate of £100 per annum, without board or residence.

The appointment will be determinable on either side at three calendar months' notice.

Applications, with copies of not more than three testimonials, and stating qualifications and experience, must be received by the Clerk not later than the 11th June next.

W. BRYAN FORWARD, Clerk.

148 London Road North, Lowestoft,
19th May, 1914.

LONDON, S.W.—A vacancy will shortly occur in Dispensing business for a qualified man of good appearance and address as Senior, with view to taking complete charge. Apply, giving particulars of age and experience, to "Radium" (108/2), Office of this Paper.

LONDON, S.W. Suburb.—Wanted early in June, a qualified Assistant, not under 25, with good-class Dispensing experience. State full particulars, age, salary required (outdoors) to 110/27, Office of this Paper.

LONDON, S.W.—Counterman for high-class Store trade; qualified preferred; good opening for a man capable of taking complete charge. Apply, 110/28, Office of this Paper.

LONDON, W.—Assistant, qualified preferred, for good-class Dispensing. Please state full particulars, age, experience, salary required, and enclose photo if convenient, to W. A. Weston, 8 Sandringham Parade, Ealing.

LONDON, W.—Unqualified Assistant wanted end of June; Dispensing experience essential. Apply, with full particulars of previous experience, salary required (indoors), and age, A. E. Grimwade, 81 Cornwall Road, Westbourne Park, W.

LONDON, W.—Qualified Assistant for Dispensing Counter; outdoors. Apply, stating age, height, salary required, with full details of previous experience, to Roberts & Co., 76 New Bond Street, W.

LONDON, W.C.—Assistant wanted at once, aged about 25, with West-End and Continental experience preferred. Apply, C. Brooks, A. D. S. Co., 6 Northumberland Avenue, W.C.

LONDON (West End), Wholesale and Retail.—Required at once, Departmental Manager of Drug business; must be qualified and capable of taking full charge; salary £150 to £250. Apply, by letter, marked "Drug Appointment," to the Managing Director, Hospitals and General Contracts Co., Ltd., 25-35 Mortimer Street, London, W.

LONDON Suburb.—Qualified Branch Manager for first-class Retail, Dispensing, and Photographic; outdoors; good prospect and permanency for a capable, reliable, and energetic man. Give full particulars, including age, height, experience, salary, references, photo, to 107/40, Office of this Paper.

MANCHESTER District. -- Wanted, qualified Assistant for working-class district; fair amount of N.H.I.; middle-aged, seeking permanency preferred. State age, experience, and salary required, 104/3, Office of this Paper.

MANCHESTER.—Unqualified Assistant required; outdoors; not under 25; accustomed to good-class business and preferably with some experience in the Wholesale trade or in Fine Chemicals and Apparatus. Apply, by letter, giving full particulars, to Mottershead & Co., 7 Exchange Street, Manchester.

MANCHESTER.—Experienced Junior wanted for good-class Retail and Dispensing business. Apply, with full particulars, to R. G. Edwards, Pharmaceutical Chemist, Fallowfield.

MANCHESTER District.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references, and photo, 105/4, Office of this Paper.

MINEHEAD.—Wanted on or about June 11, outdoor Assistant (21-25) for high-class Business in this rising Holiday Resort; good Dispenser, knowledge of Photography; hours Mondays and Thursdays 8 to 9, Tuesdays and Fridays 8 to 8, Wednesdays 8 to 1.30, Saturdays 8 to 10; Sunday duty one hour. Please state experience, age, height, salary required, with photo (to be returned), Parkin, The Pharmacy, Minehead.

NEAR London.—Dispenser and Bookkeeper (male), qualified, Minor or Hall, wanted in non-panel Doctor's practice; commencing salary 50s. a week; work not arduous; suit one requiring a permanent post. Apply, stating age, experience, and giving references, 108/3, Office of this Paper.

NEWQUAY, Cornwall.—An Assistant for the summer months wanted at once. Apply, giving all particulars as to salary (outdoors), experience, etc., to Alfred Bond, The Pharmacy, Newquay, Cornwall.

NORFOLK Coast.—Assistant required in a first-class Retail, Dispensing, and Photographic business for July, August, and September; outdoors. Full particulars, with photograph, in first letter, 107/26, Office of this Paper.

OXFORD Suburb.—Qualified Assistant wanted to take charge of Branch; good-class business, Light Retail and Dispensing; apprentice kept. Apply, with particulars, to J. Burbank, 116 Walton Street, Oxford.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.—Required, a Dispenser (male); candidates must be registered, hold certificates from a recognised School of Pharmacy of the United Kingdom, and be willing to engage for twelve months; salary £80 per annum, with rooms, board, and washing; applications, stating age, with printed copies of testimonials (limited to five), to be sent to the undersigned at once; duties to be taken up on June 1. T. A. Fisher Hall, Secretary. May 6, 1914.

ST GEORGE'S HOSPITAL, S.W.—Assistant Dispenser wanted from June 22 to September 19; Minor qualification; age under 35; hours 9 to 5; Sunday duty 2 hours every third Sunday; salary £2 5s. per week; ladies ineligible. Applications, with references, to Chief Dispenser.

SOUTH Coast.—Registered man wanted; light berth; suit elderly man or invalid requiring time for recreation. "A. B. C." (109/21), Office of this Paper.

SOUTH KENSINGTON. — Wanted early in June, outdoor Assistant; must be good Dispenser and accustomed to high-class business. Apply, with usual particulars and photo if possible, to "B. R. W.," Stickland & Co., 23 Cromwell Place, South Kensington, S.W.

THE ROYAL PORTSMOUTH HOSPITAL, Portsmouth.—Male Dispenser required; candidates must be qualified Chemists and not more than 45 years of age; lunch provided. Applications, stating salary required, with copies of testimonials, to be sent to the undersigned, B. Wagstaff, Secretary.

TORQUAY (outdoors).—Qualified Assistant, competent to manage Branch, Light Retail and Dispensing. Apply, stating age, height, experience, and salary required, enclosing photo, Frederick March, 90 Belgrave Road, Torquay.

WARWICKSHIRE.—Wanted, for three weeks from July 1, qualified Locum for a single-handed Country business; comfortable home; hours 8-8, Saturdays 10, Thursdays 1; abstainer preferred, and good all-round experience essential. Please state age, experience, salary required (indoors), and other usual particulars to Perkins, Pharmacist, Henley-in-Arden.

WEST END.—Junior; must be well recommended, reliable, of good address, and smart Salesman; hours average 70 weekly; late night duty necessitates residence within easy distance Charing Cross; one whole day off each week; alternate Sunday duty after 4 p.m. Apply, with photo if possible, giving all usual particulars, and state salary required, to "R. D." (110/26), Office of this Paper.

WEST OF ENGLAND.—Junior required for medium-class business; experienced at Counter, Window-displays, and N.H.I. Dispensing; progressive salary and commission to good Assistant. State usual particulars and enclose recent photo if convenient, "Poignée" (104/37), Office of this Paper.

WEST OF ENGLAND.—Man with brains and energy has excellent opportunity as Branch Manager, with prospects of Partnership; must be qualified and experienced in modern business methods, window-display, etc.; average amount N.H.I. work; hours reasonable; house if necessary; junior and errand boy. State salary required and usual particulars to "Zemo" (105/34), Office of this Paper.

WEST OF ENGLAND.—Wanted, experienced Assistant, age about 25, in high-class business. Apply, with photograph, particulars, and salary, to "X.," c/o Messrs. T. Morson & Sons, 14 Elm Street, Gray's Inn Road, London.

WESTGATE-ON-SEA.—Assistant (22-24), unqualified, indoors or outdoors, for first-class Dispensing and Retail business; good Dispenser and knowledge of Photography; permanency. Please state experience, age, height, and salary required, to C. H. Dixon, Chemist, Westgate-on-Sea, Kent.

YORKS (West Riding).—Unqualified man (single), capable to taking charge, required for Relief work; permanent and progressive berth afterwards if results are satisfactory. State age, experience, and salary required, "Locum" (108/42), Office of this Paper.

YORKSHIRE.—Married man wanted, to live over shop for brisk Family, Dispensing, Agricultural business in country town, with knowledge of Photography; qualified preferred but not essential if smart and competent Assistant. Full particulars, apply, C. Midgley, Market Place, Bedale.

A. FEATHER, 11 King Street, Twickenham, requires Assistant (outdoors), with good Counter and Dispensing experience; comfortable berth. Please send full particulars with application. 'Phone 1614 Richmond.

A QUALIFIED, experienced Assistant wanted; one able to take entire charge; permanency to a good man, married preferred. Apply, with full particulars of age, experience, height, salary required, to 107/35, Office of this Paper.

ACTIVE, smart Assistant wanted for the Drug and Proprietary Department; good Window-dresser. Enclose photo, stating age, height, experience, and wages (outdoors), Lankester & Crook, Ltd., Woolston, Southampton.

ASSISTANT, capable, qualified or unqualified, for good class Retail and Dispensing business, pleasantly situated; reasonable hours. Parsons & Happold, 182 Westcombe Hill, Blackheath, S.E.

ASSISTANT; qualified; state age, height, and salary. Frazer & Green, Ltd., 127 Buchanan Street, Glasgow.

ASSISTANT (indoors) for a good-class Retail and Dispensing business; close at 7.30 p.m., Thursdays 1 p.m., and Saturdays 9.30 p.m. Apply, giving particulars as to experience, salary required, age, height, and if possible enclose photo (to be returned), to W. H. Jones, Pharmaceutical Chemist, Mitcham.

ASSISTANT; permanency; outdoors; good Countermanship and Dispenser. Apply, stating full particulars and salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

ASSISTANT wanted; well up in Dispensing. State age, salary required, when disengaged, 108/1, Office of this Paper.

ASSISTANT wanted; qualified preferred, but not essential; good Dispensing experience necessary; whole day off weekly. Apply, stating age, experience, references, salary required (outdoors), and when disengaged, to Bishop & Vincent, 460 Holloway Road, London, N.

ASSISTANT; 21 to 24; accustomed to Dispensing business outdoors; two kept. Alban Atkin, 243 West End Lane, Hampstead, N.W.

CAPABLE Assistant, about 25; accustomed to N.H.I. Dispensing; outdoors. Please state experience and salary required, Leighton, 565 Lea Bridge Road, Leyton.

COMPETENT Assistant, of undeniable references, as Second, commencing salary and commission £2 10s. (outdoors), every scope for advancement; near London Bridge, S.E. W. Hunter, 278 Bishopsgate, E.C.

COMPETENT Junior wanted at once in high-class business; duties principally Dispensing and Stock. Hickman & Hall, Chemists, Newbury.

DISPENSER (male) required; outdoors; qualification not necessary if thoroughly experienced in Dispensing. Apply, stating salary required, age, and references, to Dr. Phillips, Hednesford, Staffs.

DISPENSER, Lady preferred, qualified under Insurance Act, for Yorkshire country business; if town life essential don't apply. 239/36, Office of this Paper.

EARLY in June.—Unqualified Assistant (outdoors); age about 21, knowledge of Welsh not necessary. Please give full particulars, experience, and salary required, Meyler, Pharmacist, Milford Haven.

ELDERLY qualified Chemist required for supervision; would suit gentleman between 60 and 70 who has retired from active business. Belsher, Chemist, Bloxwich.

IMMEDIATELY.—Qualified Senior to take charge of Dispensing Department, Counter and Window when required; good and progressive salary to man with ability; day and a half off nightly; quick Cash business; outdoors. Apply personally (mornings only), or by letter, giving full particulars, to 209 Trafalgar Road, E. Greenwich.

JUNIOR, 22-26, outdoors, Dispensing experience essential for Light Retail and Dispensing. Apply, stating height, salary, etc., with usual references, to Adams, 21 Formosa Street, Maida Vale, W.

JUNIOR or Improver required about June 22; outdoors. Please give usual particulars, Gaze & Co., Pharmacists, 1 The Avenue, Highams Park, N.E.

JUN R, smart, gentlemanly; good Dispenser, Counterman, and heigh dow-dresser. Particulars of previous experience, age, Ltd., salary, and enclose photo to Manager, Hedges (Chemists), , 11, 12 Dale End, Birmingham.

JU R Assistant; outdoors; accustomed to good-class Retail d Dispensing. Full particulars to Gould, Pharmacist, Tedd ton, S.W.

JU R or Improver for Isle of Man, with Dispensing experi- e. Apply, enclosing testimonials, stating salary required , to "Rhei" (109/23), Office of this Paper.

JU R Assistant; good appearance; smart Salesman and dow-dresser; knowledge of German preferred. Apply, stati full particulars and salary required (outdoors), to W. G. ruck & Co., Successors to Dodd's Drug Stores, Ltd., 70 Totten- ham urt Road, W.

LA Pharmacist (Minor), in pretty, healthy district, South nts, for Light Dispensing business; junior lady kept; easy hour nd comfortable berth. Apply, with photo, stating experi- ence, hen disengaged (can wait if required), and salary required (out rs), with other usual particulars, to C. T. Steel, Chemist, Bitte e, Hants.

LA Chemist, Minor qualification, required for Retail and H.I. Dispensing; permanency; state terms, experience, and l particulars. Apply, 110/9, Office of this Paper.

LE S & BURROWS have vacancies for first-class qualified and qualified Assistants; also for temporary Assistants during the mer months. Apply, 146 Holborn Bars, E.C.

LO M wanted for last two weeks in July and first week in gust; qualified; used to Sight-testing; indoors. Apply, with ll particulars, experience, salary, and references, H. L. Gerr Pharmacist, Devizes, Wilts.

LO M required, June 19, for 2 weeks; one used to country ade. Apply, 107/130, Office of this Paper.

M AGER wanted for Drug Department; need not be quali- Stat ed; Photography, no Dispensing; good-class Store trade. Ltd. alary required and full particulars, Burgis & Colbourne, Leamington Spa.

M AGER (qualified) for Modern Store business in busy middle- B.H. class district; assistant kept; hours easy; no Sunday or net uty; comfortable position; commission on certain sales and and fits; good salary. Give age, height, experience, references, lary required (in confidence), 108/6, Office of this Paper.

M SRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, and ave a vacancy for an unqualified Assistant; permanency od salary.

M SRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, good equire a capable Pharmacist as Manager; easy hours; nd progressive salary, with excellent prospects.

N.H.I.—Well-known firm require smart young man as Script Office Pricer at their offices. Apply, "Pricer" (108/44), of this Paper.

P TER, accustomed to a Chemist's business. Apply, Messrs. ton oper, Sons & Co., Ltd., 80 Gloucester Road, South Kensing- W.

Q LIFIED Assistant wanted; must be energetic and quick App spenser; single man preferred; good salary and prospects. Audsley, Horbury, Yorks.

Q LIFIED; fine chance for reliable Minor man to manage Wed ranch, Mixed trade, with N.H.I.; hours moderate, 1 p.m. good sdays; salary about £3 per week, with house (optional) and etc., ommission. Please state age, height, experience, references, Hedley Price, Chemist, Ashton Gate, Bristol.

Q LIFIED Assistant Dispenser required from August 1 to per eptember 5 inclusive; hours 9 a.m. to 6 p.m.; salary £2 10s. Infir k; no Sunday duty. Apply, Secretary-Superintendent, Royal ary, Bradford.

Q LIFIED Assistant, with good Counter and Dispensing ex- sala rience and knowledge of Photography; indoors; progressive Oliv ; permanency. Apply, stating age, reference, and photo, to Chemist, Maidstone.

Q LIFIED Assistant for Cash Retail and N.H.I. Dispensing; quir young man; energetic; good references. State salary re- and experience, M. H. Griffith, Great Bridge, Staffs.

Q LIFIED Assistant, age about 24, for Dispensary and day ront Counter; hours 8.15 a.m. to about 6.15 p.m.; Satur- "T 1 o'clock p.m. State experience and salary required to Lon M.," Junior Army and Navy Stores, Ltd., 15 Regent Street, n, S.W.

QUALIFIED Junior as Locum Tenens; outdoors. State age, experience, and references, Reade Brothers & Co., Ltd., Wolverhampton.

QUALIFIED Lady Assistant wanted. State full particulars, age, height, salary required (outdoors), to Cousins, Thomas & Sons, Chemists, 63 Banbury Road, Oxford.

QUALIFIED Locum wanted. State open dates and terms to Lands, Chemist, Coalville.

QUALIFIED Outdoor Assistant for high-class business in select seaside resort on East Coast; must be well recommended; preference to an abstainer. Full particulars, with salary required and photo, to 109/4, Office of this Paper.

QUALIFIED Assistant, with London West-End experience, required for best-class West End Pharmacy. Apply, with full particulars of previous experience, salary required, etc., to 107/11, Office of this Paper.

QUALIFIED; for branch; easy hours; no Sunday or night duty; every consideration for reliable man; good salary; married preferred. Fullest particulars to Twelves, Whittington Moor, Chesterfield.

QUALIFIED Assistant for the season for high-class Dispensing and Retail business; comfortable berth; moderate hours; weekly half-holiday; little Sunday or evening duty. Apply, giving full particulars, stating age and salary required (outdoors), to Bound, Pharmacist, Llandrindod Wells.

QUALIFIED Assistant or Manager required at once to take charge of Department in good-class Suburban Store; short hours; no Sunday duty; must have satisfactory testimonials. Apply personally any day 10 to 12 or 3 to 5 (except Saturday afternoon), or by letter, giving full particulars, Coppen Brothers, Carey Street, Vincent Square, Westminster, S.W.

SMART Junior Assistant or Improver for brisk Cash and Dispensing business; outdoors. Send full particulars of experience, references, salary required, etc., to "J. E. Walker," Pharmacists, Church Street, Preston.

SMART Junior, for Front Counter and Dispensing, for seaside town; must be tall, smart appearance, good Salesman. Full particulars, photo, when disengaged, "Chemist," 114 Addison Road, Hove.

SMART Junior Assistant (outdoors) for Dispensing, Light Retail, and Window-dressing; easy hours and good wages given. Full particulars and photo (to be returned) to George Lane, Pharmacist, 3 Market Place, Wokingham, Berks.

SMART unqualified Assistant for suburban business; good Window-dresser and Dispenser; married preferred; comfortable situation for good worker. Apply, "Permanency" (109/31), Office of this Paper.

TEMPORARY Assistant (qualified) for July and August; outdoors; easy hours. Apply, with particulars, to Sydney Count, Chemist, King's Lynn.

TEMPORARY unqualified Assistant (outdoors) wanted second or third week in June. Terms and reference will oblige, Thomas Hogg, Chemist, Bideford, N. Devon.

TEMPORARY Assistant, unqualified; middle of June to September. Full particulars to J. & H. A. Averill, Pharmaceutical Chemists, Stafford.

TEMPORARY Bookkeeper, for about two months, at once. Apply, "A. W.," c/o Alsop & Quiller, 137 Sloane Street, S.W.

UNQUALIFIED Assistant, about 25, wanted early for good-class Family, Dispensing, and Retail; must be good Dispenser, neat writer, gentlemanly, and abstainer. State age, height, experience, and salary required (outdoors), also send photo if possible, to "London Chemist" (106/03), Office of this Paper.

UNQUALIFIED Assistant (indoors or out), age 22 to 30, for the season or permanent. Perrett, Chemist, Bexhill-on-Sea.

UNQUALIFIED Assistant, over 25, wanted for Counter and N.H.I. Dispensing business (outdoors), near City; willing to pay a good salary to a really competent man, well experienced in Prescribing, etc.; hours 10 to 10. Saturdays 11 p.m., Thursdays 8.30 to 1.30; alternate Sundays 6 to 10. Give age, height, experience, references, salary required, if married, when disengaged, etc., to "Ph.C.," "Golden Key," 20 Norton Folgate, London, N.E.

UNQUALIFIED Assistant; experienced; good salary to good worker. Skitt, Chemist, Ramsgate.

UUQUALIFIED Assistant (outdoors) for Stock and to help at Counter. 108/21, Office of this Paper.

WANTED early in June, Assistant to help during holidays, for five weeks; outdoors. State salary, etc., Gordon & Boyle, Chemists, Boscombe.

WANTED, Branch Manager; qualified; good house; permanency for good man. References, all particulars, and photo if possible to Armitage, Pharmacist, Tong Road, Armley, Leeds.

WANTED immediately, Dispenser-Bookkeeper, etc. (male), in good-class Medical Practice, North London; wages 30s. to 35s. per week. Apply, 105/16, Office of this Paper.

WANTED for the end of June, capable, steady Assistant (qualified or unqualified) for good-class Country business; one with Optical knowledge preferred. Send full particulars as to experience, salary, and reference, etc., to Meacham, Chemist, Ledbury.

WANTED about June 1 for five weeks, an Assistant; qualified; accustomed to high-class business. Please state full particulars in first letter to Gibbs & Gurnell, Chemists, Ryde, I.W.

WANTED immediately, Junior Assistant; unqualified; permanency; outdoors. Apply, "N. E." (107/19), Office of this Paper.

WANTED, a qualified Assistant; capable of management; used to high-class Retail and Dispensing; state age, height, and experience, and salary required (outdoors). Apply to Cousins, Thomas & Sons, Chemists, 63 Banbury Road, Oxford.

WANTED, Assistant; must be capable Dispenser and good Window-dresser. State salary required, 108/40, Office of this Paper.

WANTED as early as possible, an experienced qualified Dispenser (Minor); good salary to suitable young man. Address, full particulars, to "Senna," c/o S. Maw, Son & Sons, 7-12 Aldersgate Street, London, E.C.

WANTED, competent qualified Assistant, with good recent references, to Pharmacy opening near London beginning of June; good locality; opportunity to learn Optics. Apply, "J.," 24 St. Albans Road, Watford.

YOUNG qualified Manager wanted for a neglected first-class Retail and Dispensing business in London Suburb; must be well educated, first-rate Dispenser, good Counterman, abstainer, businesslike and pushing, not under 25 years of age; one year's agreement necessary, and interest in the business given after that period to a successful man. State full particulars and salary expected for a commencement and photo to "Pushful" (106/3), Office of this Paper.

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SOUTH COAST.—Traveller wanted to call on Chemists and Stores; must have connections. Apply, 95/22, Office of this Paper.

AMERICAN Proprietary Medicine Company opening up London Branch is open to consider a few applications for Representation in different parts of the United Kingdom on commission basis; article now being advertised and asked for; novel selling scheme. State experience, age, and district worked, 103/22, Office of this Paper.

ASSISTANT Checker required in Export Despatch Department of London Wholesale house. Apply, giving full particulars, 105/14, Office of this Paper.

CAPSULE Maker required, with experience of Machine-made Capsules. Apply, stating age, salary required, and experience, to R. Sumner & Co., Ltd., Wholesale Druggists, Liverpool.

COUNTER hand, aged about 23, required on Dry Floor of London Wholesale house. State previous experience and wages required to 110/14, Office of this Paper.

EXPERIENCED Traveller, calling on Chemists and Doctors on the South Coast, to sell Bottles on commission; part connection established. Apply, 104/5, Office of this Paper.

GIRLS wanted for putting up and packing Pills, Tablets, Capsules, etc.; must be accurate and reliable workers and thoroughly acquainted with the trade. State age, experience, and wage required to "G. P." (110/110), Office of this Paper.

INVOICE Clerk; must be competent, with sound exp of the Wholesale Drug trade. Apply, giving full parti to C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, Eastern Street, London, E.C.

JUNIOR Invoice Clerk required, with knowledge of Drug must be quick and accurate at figures and able t typewriter. Apply, stating age and experience, to 107/3, of this Paper.

LARGE Rubber Manufacturer requires energetic Traveller London and provincial experience; Wholesale Surgical Sundries trade, Combs, Sponges, etc.; state full particular salary required. Apply, 238/51, Office of this Paper.

LONDON Manufacturing Chemists require competent han Laboratory; must be accustomed to control of Steam Stills, etc., and have thorough knowledge of Manufact Processes for Extracts, Decoctions, Infusions, Syrups, Apply, with full particulars and wages required, to 110, Office of this Paper.

N.W. LONDON.—Young woman wanted for pa Chemists' Specialities; must be thoroughly ex enced and capable of exercising control. Write, full partic of age, experience, and wages required, to "F. W." (110, Office of this Paper.

PHARMACIST (Scotsman preferred), age about 25, to inter Doctors and Chemists for Manufacturers of high-class I maceuticals. Give previous record and salary required 232/18, Office of this Paper.

PHARMACISTS' opportunity.—Wanted, a really smart y Pharmacist, well versed in modern Therapeutics, of sup education, West-end experience desirable, to take up impor position with high-class firm doing business with the me profession; tactfulness and perseverance, together with capabil in conversation, are necessary, and references of the highest o are fundamental. Handwritten application to "Desire (239/14), Office of this Paper.

PILLS and Tablets.—Junior required, with some previous perience; Junior also wanted, Wet and Dry Counter. S age, wages, and full particulars to 111/3, Office of this Pape

YOUNG man for Dry Floor in Lancashire Drug house; previ experience essential. Apply, with full particulars, 106 Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or l beyond, prepaid. The Advertiser may, if preferred, have repl addressed to this Office, and forwarded on payment of an addition charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class priv British firm of Chemists; age not over 30; three yea agreement; salary £200 first year, £220 second year, £240 thi year; hours 9 a.m. to 6.30 p.m.; passage paid out and ho by P. & O. steamship. Apply, with copied testimonials and pho to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Stre London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant, with good a round experience and knowledge of Photography; unmarri and under 30 preferred; three years' agreement; passage pa out; salary £20, £22 10s., and £25 per month for first, secon and third years respectively. Apply, with copies of testimonia to "Zebra," c/o Tozer, Kemsley & Fisher, Ltd., 84 Fenchur Street, London, E.C.

CALCUTTA.—Messrs. Bathgate & Co. require two Juni Assistants, with Minor qualification, age 21 to 26, u married; passage paid both ways; four years' agreement; salar first year (monthly) Rs. 250, second Rs. 275, third Rs. 30 fourth Rs. 325. Apply, giving particulars of experience, t Messrs. Alex. Lawrie & Co., 14 St. Mary Axe, London, who wi be pleased to answer all inquiries.

CAPE TOWN.—Required immediately, qualified Chemist a Manager for Branch; single; abstainer; three years' agre ment; salary £200, £210, £220 per annum respectively; secon class passage paid out. Apply, giving fullest particulars, t 110/24, Office of this Paper.

CHINA.—Drug Warehouse Clerk, experienced in keeping Stock books and filling Orders; age not over 30; good salary passage paid out and home; 4 years' agreement. Addres "China" (107/9), Office of this Paper.

INDIA.—Old-established private firm require smart pushing Assistant with Minor qualification; salary commencing £1 per month and commission (or more to a really capable man) with annual increase to a maximum of £35 per annum; excellen prospects for a man not afraid of work; personal interview ca be arranged. Apply, "X. Y. Z." (105/140), Office of this Paper

—Required shortly, a first-class qualified Assistant, age t 23, for English Chemists' doing high-class trade; good and prospects for right man; four years' agreement; paid both ways. Write, giving full particulars of tions and experience, to Indo Burma Co., Ltd., 108 Wood e, E.C.

—Qualified Assistant, about 30 years of age; four years' ement; salary £144 first year, advancing £12 annually with residential quarters and board, also a commission profits; second-class passage paid *via* Siberia, and return home agreement completed. Apply, with copied testi- and photo, to "R. L.," S. Maw, Son & Sons, 7/12 to Street, London, E.C.

—Wanted, competent Assistant, accustomed to a good- Dispensing and Counter business; outdoors. Reply to " (87/26), Office of this Paper

RTS & CO., 5 Rue de la Paix, Paris, have a vacancy a qualified Assistant, with knowledge of French. Appli- ould state age, height, experience, and salary required tdo).

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
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DO YOU WANT A LOCUM?

OWING to unexpected alteration in booking, I have five weeks free from June 1; qualified; active; experienced in all branches. W. Peacock, 1 Severn Terrace, Newport, Mon.

SEASIDE situation required, July; unqualified; 21. Charlton, 6 Softs Road, Normanton.

ASSISTANT; reliable; or Manage neglected business, view purchase. Hanson, c/o 309 Garratt Lane, S.W.

DISENGAGED until June 22; Locum; qualified. 4 Citadel Terrace, Plymouth.

DISPENSER; unqualified; well experienced N.H.I.; free now for Locum or permanent post. Wilson, Langworthy Road, Eccles, Manchester.

DISPENSER; gentlemanly; disengaged 10.30 to 1 p.m. daily. 66 Alexandra Park Road, N.

EXPERIENCED lady Dispenser, used to N.H.I., requires position near Liverpool. 25 Cecil Road, Seaforth, Liverpool.

JUNIOR lady 3 years' first-class experience; excellent reference; Apply, Randall & Son, Ltd., 146 High Street, Southampton.

LADY (22); Dispensing, Counter, and Bookkeeping; good experience in N.H.I. 107/24, Office of this Paper.

LOCUM experienced; references; disengaged June 10. "Arin," 395 High Road, Gunnersbury, London, W.

LOCUM or otherwise; age 51; good all-round experience; excellent references; disengaged. 103/17, Office of this Paper.

LOCUM disengaged July; quick Dispenser; experienced. "Tot," 4 Fendale Road, Clapham.

LOCUM disengaged; finest experience; best references. "Pharmacist," "Skelbrooke," Cleadon, Sunderland.

LOCUM; qualified; best London and Continental experience; disengaged June 1. Address, "B." (107/35), Office of this Paper.

LOCUM; Whit-week and evenings; qualified. James, "Flamstead," Mottingham, Eltham, S.E.

LOCUM Tenens; reliable, experienced. Apply, Idris Lloyd Jones, Pharmacist, Llanrwst, N. Wales.

LOCUM; town or country; fully experienced; disengaged June 14; reliable references. Forster, 5 Coleridge Road, Finsbury Park, N.

LOCUM; qualified; disengaged June 10; splendid references. "Alpha," Park Lodge, Finsbury Park.

LOCUM; disengaged 16th; South experience; qualified; abstainer. "Optico," Townsend, Westbury-on-Trym.

LONDON.—Unqualified; 33; Counterman, Dispenser; good references and experience; permanency preferred. "Obliging" (111/5), Office of this Paper.

MANAGERSHIP, with view to ultimate succession preferred; town or country; experienced; married. 107/12, Office of this Paper.

MANCHESTER.—Permanency; qualified; Locum open; liberty June 1. Walker, 25 Douglas Street, Higher Broughton, Manchester.

MANCHESTER District.—Locum work required during summer months by experienced Minor man. Write, "Temporary," 33 Ashbourne Grove, Higher Broughton, Manchester.

MINOR; 41; single; Dispenser, Superintendent, or otherwise; moderate terms. "Suitable" (107/38), Office of this Paper.

PART-TIME; experienced Counter, Stock, Insurance; qualified. "Dispenser," 115 Scott-Ellis Gardens, St. John's Wood.

PHARMACIST, married, no family, desires comfortable permanency; good experience; excellent testimonials; country preferred; reasonable hours. "M.P.S." (106/8), Office of this Paper.

PHARMACIST (lady) desires engagement. "A. S.," "Ambleside," Carshalton Park Road, Carshalton.

PORTSMOUTH District.—Assistant; unqualified; tall; 30; abstainer; good Dispensing, Prescribing, Photography; part-time, Locum or permanent. "B. K.," 37 Leighton Gardens, Willesden, N.W.

QUALIFIED; 25; good-class West-End and provincial experience Dispensing, Counter, Photography, etc.; outdoors. Sprague, c/o Knowles & Phillips, 93 Gresham Street, E.C.

QUALIFIED elderly Chemist seeks appointment; moderate hours; South London for choice; or Surgeon's Dispenser. J. Pye, 33 Louisville Road, Balham, S.W.

QUALIFIED; 31; Dispensing and Continental experience; sea side preferred. 104/38, Office of this Paper.

QUALIFIED, unmarried (31), desires Managership; salary and commission, with good prospects; good London and provincial experience; undeniable references; thorough attention given to business. "Sanatogen," The Yuccas, Holt, Norfolk.

QUALIFIED; middle-aged; active; good experience; any capacity. "R.," 8 Salisbury Road, Brislington, Bristol.

QUALIFIED Assistant seeks employment in English Pharmacy; speaks German and Russian; English experience required; salary no object. "R.," 3 Wood Lane, Shepherd's Bush.

QUALIFIED Assistant requires evening employment; good all-round experience; Continental Pharmacy; French spoken. Apply, "Senior," 31 Great St. Andrew Street, W.

QUALIFIED, smart man (35), married, experienced and reliable. Photographic and Optic expert, desires seaside or country town berth; view to interest. Replies, 108/33, Office of this Paper.

QUALIFIED; single; varied experience; any capacity; terms moderate. "Useful" (107/380), Office of this Paper.

QUALIFIED Chemist, recently sold business, requires temporary position. "Pharmacist" (109/13), Office of this Paper.

QUALIFIED; 35; tall; married; Counter, Dispensing; disengaged. Stewart, 16a Highgate Road, N.W.

SURGERY Attendant seeks appointment with Doctor, town or country; qualified Dispenser, Bookkeeper, Dresser; highest references; abstainer. "Assistant," 337 Central Park-Road, East

UNQUALIFIED Assistant, age 25, married, requires permanent post; has a general knowledge of Dispensing, Photography, etc.; seaside preferred, but not essential. Apply, "Rex" (106/29), Office of this Paper.

UNQUALIFIED, tall, good appearance, 15 years' experience, disengaged evenings and Saturdays, would accept permanency; W. London preferred. "P.," 39 Albert Road, Tottenham.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED, experienced Branch Manager; married; no family; permanency; strictly temperate; good worker. 108/34, Office of this Paper.

UNQUALIFIED; smart; 28; tall; thoroughly experienced in all branches, Retail, Photography, Window-dressing, and Dispensing; not afraid of work; excellent references. "L." (108/35), Office of this Paper.

UNQUALIFIED, age 30, tall, first-class references and experience, good Salesman and Window-dresser, as Manager of Drug Store. "Enterprise," Cottenham, Cambridge.

DENTISTRY.—Chemist and Druggist (Extractor) wishing lessons in Mechanical Dentistry would be willing to teach Drug Store business in exchange. 105/33, Office of this Paper.

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CHEMIST, who has had extensive experience as a Representative in interviewing the medical profession, etc., and in selling high-grade Specialities, desires appointment; trained Salesman, capable Organiser, and good knowledge of systems. 109/30, Office of this Paper.

CLERK (German Swiss); speaks and writes French and German perfectly, English fairly well; age 23; 6 years' good experience in Drugs and Specialities. P. Hunziker, 11 Cambridge Road, Hammersmith, W.

ENERGETIC, abstainer, 31 years of age, capable organiser, sound commercial experience at home and abroad, seeks position of trust, or would travel; Yorkshire and the North. Apply, 107/13, Office of this Paper.

GENTLEMAN, with London and provincial experience amongst Chemists and Stores, wants position as representing a good house. 104/12, Office of this Paper.

GENTLEMAN, smart, Swiss, seeks suitable employment in London for about one month; thorough knowledge of German, French, English, and Italian; good correspondent, with good handwriting; good typist; qualified Analytical Chemist, Swiss diploma; quick at figures; some business training and good Photographic experience. 104/18, Office of this Paper.

PHARMACIST, experienced, 30, seeks position, Wholesale or Export; French, German, Spanish. 105/3, Office of this Paper.

TO Manufacturers of Medical, Toilet, Perfumery, and Proprietary Articles.—Chemist open to engagement; original Formulas new and established; large London business experience. 109/15, Office of this Paper.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

Shares for Sale (free of commission, subject).—20 Allen & Hanbury "B" Preference 23*s.* 3*d.*; 70 Army & Navy Stores, 57*s.* 6*d.* (yielding 5¼ per cent.); 10 Bleasdales, £5 7*s.* 6*d.*; 100 Bovril 7 per cent. Ordinary, 21*s.* 4½*d.*; 300 Claudius Ash 5½ per cent. Preference, 22*s.* 9*d.* c.d.; 50 Lewis & Burrows Ordinary, 4*s.* 9*d.*; 200 G. B. Kent Preference, 17*s.*; 200 Veno's Drug, 21*s.*

Wanted (subject).—300 Idris "A" Preference, 3*s.* 3*d.*; £1,000 4 per cent. Debenture Stock, 61½; 1,000 Parke's Drug Ordinary, 4*s.*; 120 Wright, Layman Preference, 20*s.* 9*d.*

List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

CHEMISTS' Second-hand Modern Fittings.—14-ft. Drug Fitting; 10-ft. Glass-fronted Counter; Nest of Counter Drawers; 6-ft. Dispensing Screen and Counter; Perfumery Case and Desk; Mahogany and Bent Plate-glass Counter Case; 8-ft. Window Enclosure and Plate-glass Mirror; the lot £49, bargain; send for sketches, cheapest house for structural alterations, Shop-fronts, Window Enclosures, Glass Shelves; Estimates free. H. MILLS, Chemists' Shopfitter, Shop-front Builder, and Glass Facia Works, 163-5 Old Street, E.C.

CHRISTOPHER BEDFORD deceased. Pursuant to 22 & 23 Vic. Cap. 35. Notice is hereby given that all persons having claims against the Estate of Christopher Bedford late of Cheshunt, and 6 St. Swithin's Lane and 3 Queen Street, City of London Chemist (who died on the 10th April 1914) are required to send particulars thereof in writing to the undersigned Solicitors for Frederick Beaumont Morgan and Edward Francis Whaite, the Executors of the Will of the Deceased, on or before the 4th day of July 1914 after which date the assets of the Deceased will be distributed having regard only to Claims of which the Executors shall then have had notice.

Dated this 23rd day of May 1914.

MORGAN & HARRISON,
15 Old Jewry, London, E.C.,
Solicitors for the Executors.

SHOPFITTINGS.—Marble-top, Mahogany and Plate-glass Counter Case, 79*s.* 6*d.*; 5-ft. Mahogany and Plate-glass Counter, 80*s.*; 6-ft. Mahogany and Plate-glass Counter, 80*s.*; Perfumery Case and Desk, 40*s.*; hundreds of cash bargains; inquiries invited. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 2 Old Street, E.C.

CHEMISTS' Fittings, Silent Salesman Showcases, Drug Fittings, Dispensing-screens, Wall-cases, Perfume-cases, Desk Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand at unbeaten prices; before you decide get my estimate, you won't do better; 30 years fitting Pharmacies. George Cook, the "Mister" working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you have send them along; cash will be sent same day; no waiting to buy all and return nothing. S. E. Hackett. 23 July Road, Liverpool, E.

Radium Foods Patent 18004/1911

The Patentee, Mr. JOHN LANDIN, Analyst and Chemist for the City of Stockholm, is prepared to grant a Licence or Licences for the Manufacture of Radio-active Foods under Patent 18004/1911. For terms write Box 852, Cosens, 5 Copthall Court, London, E.C.

THE CHEMISTS' FRIENDLY SOCIETY

Assistants and Apprentices—support your own Society. It is the only Trade Approved Society for the United Kingdom. Members advance the claims of the Society are benefiting themselves, the Society being mutual. Forms of application for admission on request from

THE MANAGER, C. F. S. (C Dept.),
194 St. Vincent Street, GLASGOW.

NOW READY.

"How to Compete with Patents." This letter shows how you can meet increased competition and turn it to your advantage, with instructions for window show, etc. For one week only I will send this letter, together with a window centre, size approx. 50×20, to Pharmacists only, for 5/- P.O. I can only supply one Pharmacist in a district, and Pharmacists only. Application should be made for the same to save disappointment. For up-to-date ideas in advertising, window shows, ideas for new specials, window centres, write for particulars to

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.

Two London Chemists praise Talking Cards.

Mr. G. W. EVANS, a director of Ucal, of Hammersmith Road, W., writes:

"I like the new principle you have introduced into your cards. They are 'different' and are real sellers. The cards draws, then you put concise and convincing facts beside and the article is as good as sold."

Mr. H. C. PAYNE, of Essex Road, Islington, N., writes:

"I am so pleased with the results from the Talking Cards I had in November that I intend to use them regularly. Please send ——."

These two Pharmacists, one practising in a fashionable suburb; the other in a busy working-class locality, are pleased with Talking Cards. They are good business getters for all classes of businesses. They would suit YOU. Write for details.—BROMLEY, Chemist, Whetstone, Middlesex.

EXCHANGE COLUMN

Ch halfpenny per word with name and address. One penny per word we register the address and attach a number.
No dvertisement inserted for less than 6d.

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FOR DISPOSAL.

APPARATUS.

ORBT NG'S balance, nearly new; cost £20; what offers? reason al price accepted. Smith, Chemist, Kidderminster.

DENTAL.

OFFE —Two or three dental forceps and dental impression tr ; appro. 239/220, Office of this Paper.

THRE pairs dental forceps (Mawe's): nearly new; 7s. 6d. the lot "Chemist," 38 Richmond Road, Bayswater, W.

DRUGS AND CHEMICALS.

OFFE —5 gross pil aloes myrrh., 5 gross pil. aloes dil., 3 doz. (Carroids, 1s. 1½d.; 7 lb. paper pulp; 3 gross 1d. petroleum j ; 6 doz. 6d. little liver pills; ½ lb. ung. hydrarg. rif, 7 lb. rad. zingib. Jam; 3 doz. 1d. magnesia; 1 oz. ol. briandri; 1 oz. ol. fœniculi. Samples, 239/22, Office of ta Paper.

SHOP FITTINGS.

O'BRI S £5 till; counter-case as Evans fig. 10; tooth-brush co er case; cost 35s. 108/27, Office of this Paper.

PROPRIETARY ARTICLES.

OFFE —6 doz. Dr. Hale's vin. sanguis; 5¾ doz. Dr. Hale's co wine. 89/35, Office of this Paper.

HALF etail Price.—9 Ford's balsam, 8 Soden mineral pastilles, 70 lvanit, 5 Lavan's linctus, 6 Lincel liniment, 6 Hearne's br itis, 29 Gibson's vocal loz., 20 Barkhart's compound. Sa e, Chemist, Bradford.

SURPL S Stock.—A great bargain; Guerlain's shaving cream; usu wholesale price 16s. per doz. net; retails at 2s. per pot; wo take to clear 6s. per doz. net: in saleable condition; ex id job line for store trade; Locock's wafers; 8 doz. 1s. s s. per doz. net; 9 doz. 2s. 9d. size, 10s. per doz. net. Ap "Cema" (105/104), Office of this Paper.

MISCELLANEOUS.

SIX ox n cylinders, 20 ft., with hemp covers; 20s. each carriage for d. Colby, Chemist, Brighton.

WHAT er? 60 shop round bottles, good condition, all sizes. Ad s, "Rhei" (105/30), Office of this Paper.

O'BRIE S till and dental lathes for sale. Meyrick, 34 James Stre W.

CORKS O gross, ¾ diameter, 2s. 3d. (5 gross 1s. 3d.) post free. Grif Cockermouth.

SET 12 oth forceps in leather pouch, £2 5s., good make and cond n; Harness medical coil, very fine, £2; also 8-volt Sam new dynamo, £1, retails at £2, or offers. 93 Falsgrave Road Scarborough.

WANTED.

SUPPOS ORY mould for one or two dozen. Penfold, 128 Ashley Road Bristol.

B.P., 398. State condition and price to Cox, 11 Bowden Hill, New Abbot.

NATION L Cash Register wanted; must be in good order. Write, Jess 53 Auckland Street, Kennington.

OPTICA books; Minor, Major, Chemists' books; send prepaid for valu n; cash offers per return. Gower, Bookseller, 41 Volta Road, Clapham, London, S.W.

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COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Thursday, June 4.

Chemical Society, Burlington House, London, W., at 8.30 P.M. Among the papers to be read are the following: "Studies in the Succinic Acid Series. Part I.—The Chlorides of Succinic and Methylsuccinic Acids and their Constitution," by Mr. G. F. Morrell, and "The Dilution Limits of Inflammability of Gaseous Mixtures. Part I.—The Determination of Dilution Limits. Part II.—The Lower Limits in Air of Hydrogen, Methane, and Carbon Monoxide," by Messrs. H. F. Coward and F. Brinsley.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8.30 P.M. Ordinary meeting.

Friday, June 5.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Professor W. H. Bragg on "X-rays and Crystalline Structure."

The Drug Trade Appeal Fund, St. Bride Institute, Ludgate Circus, E.C., at 3 P.M. Annual meeting of the subscribers.

FAIRCHILD SCHOLARSHIP AND PRIZES.—Tuesday, June 2, is the last date on which applications to sit for the examination for the 1914 scholarship and prizes can be received by the Secretary, Mr. A. E. Holden, Albert Chambers, 64-65 Holborn Viaduct, London, E.C.

Sports.

THE May competition of the Edinburgh Chemists' Golf Club for the Gibson Medal was played at Musselburgh on May 13, with the following result: First and second (a tie), Mr. K. McLennan and Mr. W. Spence, 87 net; third (a tie), Mr. R. D. Douglas and Mr. A. F. Terry, 91 net.

THE BIRMINGHAM PHARMACISTS' C.C. played the Sparkhill C.C. last week. The Pharmacists, who batted first, were dismissed for thirty-nine runs, Buckingham (19) and Holgreaves (11) being the chief scorers. Sparkhill replied with sixty-six runs. B. Gretton Watson took five wickets for the losers.

ALLENBURYS C.C. met the Stevenson & Howell C.C. in the Wholesale Chemists' and Druggists' League tourney at Mottingham on Saturday, May 23. The match resulted in a win for the Allenburys. Scores: Allenburys, 89 for 4; S. & H., 72. Crossman (33 not out) and Stokes (22) were the chief scorers for the winners, for whom Porter took five wickets for twenty-six runs.

THE annual cricket-match between teams from the works and warehouse staffs of Messrs. T. Morson & Son for the cup presented by Mrs. T. P. Morson was played at Summerfield Ground, Ponder's End, on May 23. Dr. Roy (captain of the Works eleven), winning the toss, sent the Elm Street eleven in to bat on a tricky pitch, but the bowlers failed to utilise their opportunity, and a score was run up of 176 runs for six wickets. The outstanding batsmen were Storer (40), Smith (40), and Chiles (51). The Works team made a poor display against the bowling of Smith and Olding, and were dismissed for 74 runs, Mr. L. J. Morson taking the last three wickets for eight runs. The Cup was presented to the new holders by the donor, Mr. T. P. Morson thereafter addressing the two elevens. The visitors were then conducted over the factory by Dr. Roy, works-manager. In the evening Mr. T. D. Morson presided at a sumptuous supper provided by the firm to the staff, and later an impromptu concert was held in the Galenical Laboratory, which was decorated for the occasion, being illuminated by electric Chinese lanterns erected by the works staff of electricians. The artistes contributing to the musical programme were Messrs. Burr, Baker, Christopher, Fookes, Gordon, T. D. Morson, Smith, and Furby.

Suburban Rambles.

AN unofficial hawthorn ramble by some members of the West Ham Association of Pharmacists took place on May 14. The party, numbering eighteen, took train to Grange Hill, and from there they proceeded by footpaths across the fields and by the outskirts of Hainault Forest to Abridge.

THE first botanical ramble of the season by students of the South of England College of Pharmacy was to Coulsdon on May 13. From thence, led by Mr. Lucas, the students rambled over Farthing Down back to Coulsdon. A wealth of flora was found, as the season is very forward. Many specimens were gathered and examined. Tea was partaken of at the Fox Hotel. An enjoyable and instructive afternoon was brought to a close by returning to town about 8 P.M.

THE CHEMIST & DRUGGIST

SUMMER ISSUE.

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